REZ-STONE

BULLETIN #10
CONCRETE SURFACE PREPARATION

Proper concrete surface preparation is the most important part of the application of protective coatings or overlayments. Applicators should inspect and prepare concrete surfaces or failure can result in the flooring system.

All concrete surfaces must be sound. The surface strength of the concrete must be at least 200 psi for the successful application of Rez-Stone flooring products.

Depending on which Rez-Stone flooring system is used, removal of surface defects may be required. Smooth trowel surface on the substrate is required. Protrusions such as mortar splatter or trowel marks should be removed by grinding.

Any oil, grease, curing compounds, release agents, laitance or unbounded coatings must be removed prior to the application of Rez-Stone flooring systems.

The most preferred method of substrate preparation is vacuum of shot blasting. Clean and dry, shot blasting removes any surface contaminates while leaving a desirable profile ready for surface treatments. Scarification and sand blasting will also remove heavy surface contaminants, but usually an uneven profile will be present on the substrate. Once surfaces are mechanically prepared, they should be broom cleaned and vacuumed to remove any remaining dust or particles from the surface.

Shot blasting is the chosen method of preparation however, acid etching can be employed on new concrete surfaces that have been wet cured. Acid will not remove most curing compounds.

Commercial muratic acid should be used for acid-etching concrete. The acid should be diluted three to one with water.

The acid solution should be sprinkled at 75 square feet per gallon onto the entire surface using a conventional sprinkling can.

The acid solution should be allowed to react for two to three minutes, then the acid solution should be scrubbed using a stiff bristle brush or broom. This will remove any laitance or loose concrete. The solution should be allowed to react for 10 to 15 minutes, or until the bubbling action has stopped. If there is no bubbling action to the acid solution, then waxes, curing compounds, or oils are present and a form of mechanical preparation is necessary. The floor surface should be rinsed thoroughly with clean water and dry mopped to remove any dirt or remaining water. If the floor surface is not rinsed properly, a salt residue is present on the concrete substrate. This salt residue, caused by the acid, acts as a bond breaker and will cause adhesion or delamination problems. After final rinsing, the floor surface should be allowed to dry overnight prior to the application of the Rez-Stone flooring system.

A final test before proceeding with the application of Rez-Stone flooring systems is to install a test patch of the Rez-Stone flooring system and allow it to cure overnight. The test area should then be tested for adequate adhesion before proceeding.

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BULLETIN #20
RE-COATING EXISTING EPOXY FLOORS

Proper concrete surface preparation is the most important part of any coating or re-coating application.

In general any existing properly installed epoxy flooring system can be prepared, re-coated and warranted if completed properly.

However, it is important to remember that a properly completed re-coat will not improve the adhesion of the existing coating to its substrate. And will only be as strong as the surface it's going over.

Before any mechanical preparation, the entire area should be thoroughly degreased and rinsed using Rez-Stone 1000 or equal.

All existing coatings must be inspected for loose or delaminating conditions and repaired as necessary. Loose coatings must be removed or scraped back until a "tight edge" is found.

The areas of removed coatings will be mechanically prepared primed and patch as necessary to restore the area to its original and smooth elevation. Typically this is accomplished by shot blasting or grinding followed by patching with Rez-Stone 2610 for less than 1/8" deep or Rez-Stone 2500 for repairs greater than 1/8" deep.

After patching is completed the entire area including the patches will be mechanically abraded using #20 grit or #36 grit sandpaper. The existing coating should be sanded to the point which no gloss or sheen is evident.

After sanding, the floor will be hand swept using a soft bristle broom and then vacuuming or tack ragging is recommended.

Before priming any miscellaneous holes, nicks or gouges can be filled with Rez-Stone 2610. Rez-Stone 5017 primer binder will be squeegee-applied over these patches while they are still wet.

After the primer has cured, a topcoat of Rez-Stone 5078 can be applied at 90 – 125 square feet per gallon, depending on finish texture desired.

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GENERAL DESCRIPTION OF EPOXY SYSTEMS

Although, no two facilities are the same, or no two pieces of concrete are the same. These basic specifications can be used and modified to meet almost any need. Each system is designed to accomplish a certain result.

Epoxy Coatings:

Two coat systems are designed to seal and protect new concrete from oil and other chemical penetration. This system dust proofs the floor, hardens the concrete surface better than other surface hardeners and provides a wear surface. The systems are usually pigmented to provide enhanced ascetics and increased light reflectivity.

Three coat systems are used to add additional mil for extended wear and fill in rougher concrete.

Coatings work well for both new and old concrete, but are better suited for off-aisle areas and where the concrete has nominal oil saturation. If a concrete surface can be damaged, the same damage will occur to these systems.

1/16" to 1/8" Epoxy Broadcast Systems:

These systems are thicker in nature and utilize sand or quartz aggregates for additional strength. These systems work well for garage areas, cafeterias, restrooms, locker rooms and storage areas.

Broadcast systems are more impact resistant and provide more wear surface than coating systems. These systems can be decorative or solid colors.

Epoxy Topping Systems:

These systems range from 1/8" to nominal ¼" thick. They should be installed using a drag or screed box for uniformity. The topping consists of blended silica and quartz aggregates and an epoxy binder. Power troweling compacts the system and increases system strength.

Topping systems are designed to resurface spalled concrete providing a durable wear surface for heavy wheeled traffic and has high impact resistance. Epoxy mortar is excellent for patching deep holes, ramping and re-pitching floors.

Other Systems:

Urethane, oil modified, and moisture cured are used to dustproof new or old concrete floors. If oil or dirt has penetrated the concrete surface, the concrete should be shot blasted or scrubbed prior to application. Two component aliphatic urethanes have better chemical resistance and does not amber as oil modified or moisture cured types do.

Urethanes are not used much since the solvent components are volatile and cannot be applied when workers are present.

Their mil thickness is extremely thin and wears off. Therefore, the floors must be continually recoated.

Chemical Resistant Systems:

Some areas require high chemical resistance against concentrated acids and caustics. In such cases, certain systems will be required above and beyond the epoxy coatings or epoxy toppings.

Here vinyl ester or polyester systems, either flake filled or fiberglass lined are required.

Spark Resistant Systems:

This type of system is required in areas where computers or highly sensitive equipment is located. These systems involve epoxy filled with carbon filler.

Slip Resistance:

Epoxy systems can be made more or less slip resistant. The degree of slip resistance is proportional to the type and density of aggregate mixed into the epoxy topcoat. There is a trade-off; however, for increasing the density of aggregate in the epoxy topcoats. The greater the density, the more difficult it becomes to clean the surface.

Surface Preparation:

This is critical to achieving the maximum bond with the concrete surface. Steel shot blasting should be mandatory for any coating system.

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PROTECTIVE MAINTENANCE

As a general rule, epoxy floor coverings, including Hoover & Wells, Inc. /Rez-Stone flooring systems benefit from a complete maintenance program. Floors can wear and become defaced by heavy foot traffic grinding dirt and abrasives into the floor surface.

A. Do not drag sharp objects across the floor surface.

B. Do not weld over the floor system as mouton slag will burn the surface causing amber discoloration.

C. Place wet caution signs in the event of standing water or oil.

CLEANING MAINTENANCE

A. Routine sweeping and/or dusting is recommended to remove abrasive particles.

B. As required, depending on the amount of traffic and laitance build-up on the floor, wash floor with warm water and detergent, following detergent manufacturer's directions. (Rez-Stone 1000 soap solution is recommended.)

1. Wet mop solution onto floor surface
2. Scrub to loosen adhered dirt using stiff bristle nylon brush.
3. Remove soiled wash water with mop, squeegee or wet vacuum and discard.

C. Rinse floor thoroughly with clean water.

D. For worn surfaces with wear scratches, the surface may be buffed using a lamb's wool pad. In addition, acrylic floor wax solution may be mop-applied to bring back shine.

REZ-STONE

SPECIFICATION

9210 TWO COAT CLEAR EPOXY SEALER FLOOR SYSTEM

Description:

Rez-Stone 9210 is an economical epoxy coating system, which provides hi-build 10 mil protection over new or like new existing concrete surfaces. Rez-Stone 9210 is designed for industrial floor service where dust proof and cleanable finishes are required. Rez-Stone 9210 incorporates a 100% solids epoxy primer and topcoat for a long lasting, semi-gloss finish, resistant to most common industrial cleaners and fluids.

Advantages:

- ✓ Economical
- ✓ Fast and easy application
- ✓ High abrasion resistance
- ✓ Monolithic clear finish

Limitations:

- ✓ Substrate minimum temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Substrate must be clean and sound
- ✓ Do not apply to wet substrate or substrates exhibiting moisture vapor transmission

Coverage: Nominal 10 mils

Actual coverage may vary due to the existing surface conditions. The following can be used as a guide for new or like new concrete conditions.

Prime Coat	250 Square Feet per Gallon (6 mils)	Rez-Stone 5017
Topcoat	300 Square Feet per Gallon (4 mils)	Rez-Stone 5017

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods. Due to the relatively thin thickness of the system, brush blasting is recommended with a S-280 shot or smaller to prevent blast marks from telegraphing through the coating. Treated surfaces must be magnetically broomed to remove all steel shot, and vacuumed to remove all dust and dirt before applying any coatings.

Application:

After proper surface preparation, apply a prime coat of Rez-Stone 5017 using a flat rubber squeegee or roller. After primer has cured, fill all cracks and holes using concrete colored, Rez-Stone 2610 Epoxy Crack Repair. After patching, apply finish coat of Rez-Stone 5017 using a flat rubber squeegee, using proper technique not to leave squeegee marks. Do not allow primer to cure more than 24 hours before applying topcoat. If more time is allowed the over cured surface must be lightly sanded or screened before applying additional coats. This will prevent any inner coat adhesion problems.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

9210 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Tensile Strength ASTM D-638	2,500 psi
Compressive Strength ASTM C-579	9,100 psi
Flexural Strength ASTM D-790	4,300 psi
Tensile Elongation	8%
Bond Strength	Greater 300 psi (concrete failure)
Flammability ASTM D-635	Self-extinguishing
Electrical Conductivity	Non-conductive
Water Absorption % ASTM D-570	0.10
Color	Available in clear and all standard colors

REZ-STONE

SPECIFICATION

9220-OP TWO COAT EPOXY SEALER FLOOR SYSTEM

Description:

Rez-Stone 9220-OP is an economical epoxy coating system, which provides hi-build 20 mil protection over new or like new concrete surfaces. Rez-Stone 9220-OP is designed for light-to-medium industrial floor service where light "orange peel" finish is required. Rez-Stone 9220-OP incorporates a 100% solids epoxy primer and topcoat for long lasting, semi-gloss, textured finish, resistant to most common industrial cleaners and fluids.

Advantages:

- ✓ Economical
- ✓ Easy-Fast Application
- ✓ High Abrasion Resistance
- ✓ Unique "Orange Peel" Finish

Limitations:

- ✓ Substrate minimum temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Substrate must be clean and sound.
- ✓ Do not apply to wet substrate or substrates exhibiting moisture vapor transmission.

Coverage Nominal 20 Mils::

Prime Coat	200 Square Feet per Gallon (8mils)	Rez-Stone 5017
Topcoat	125 Square Feet per Gallon (12 mils)	Rez-Stone 5078

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods. Due to the relatively thin thickness of the system, brush blasting is recommended with a S-280 shot or smaller to prevent blast marks from telegraphing through the coating. Treated surfaces must be magnetically broomed to remove all steel shot, and vacuumed to remove all dust and dirt before applying any coatings.

Application:

After proper surface preparation, apply a prime coat of Rez-Stone 5017 using a flat rubber squeegee or roller. After primer has cured, fill all cracks and holes using Rez-Stone 2610 Epoxy Crack Repair. After patching, apply Rez-Stone 5078 using a notched rubber squeegee or roller and backroll on spiked shoes for an even finish. Do not allow primer to cure more than 24 hours before applying topcoat. If more time is allowed the over-cured surface must be lightly sanded or screened before applying additional coats. This will prevent any inner coat adhesion problems. If more non-slip finish is desired a clean, dry, and graded silica or aluminum oxide aggregate may be incorporated into the Rez-Stone 5078 topcoat.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritations. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Tensile Strength ASTM D-638	2,400 psi
Compressive Strength ASTM C-579	9,200 psi
Flexural Strength ASTC D-790	4,300 psi
Tensile Elongation	10%
Bond Strength	Greater 300 psi (concrete failure)
Flammability ASTM D-635	Self-extinguishing
Electrical Conductivity	Non-conductive
Water Absorption % ASTM D-570	0.10
Color	Available in clear and all standard colors.

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REZ-STONE

SPECIFICATION

9230 TWO COAT EPOXY FLOOR TOPPING SYSTEM

Description:

Rez-Stone 9230 is a two coat epoxy floor system designed for hi-build epoxy protection over new or like new concrete substrates. Rez-Stone 9230 provides high gloss and excellent wear resistance on light to heavy industrial floor applications. Rez-Stone 9230 incorporates two coats of 100% solids epoxy for an economical, long lasting, 30 mil floor system.

Advantages:

- ✓ Economical
- ✓ Easy two coat application
- ✓ Excellent light reflectivity
- ✓ 100% solids, no V.O.C.

Limitations:

- ✓ Substrate minimum temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Substrate must be clean and sound

Coverage:

Actual coverage may vary due to the existing surface conditions. The following can be used as a guide for new or like new concrete conditions.

Prime Coat	175 – 225 Square Feet per Gallon (8 mils)	Rez-Stone 5058
Topcoat	75 Square Feet per Gallon (22 mils)	Rez-Stone 5058

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods. Due to the relatively thin thickness of the system, brush blasting is recommended with a S-280 shot or smaller to prevent blast marks from telegraphing through the coating. Treated surfaces must be magnetically broomed to remove all steel shot, and vacuumed to remove all dust and dirt before applying any coatings.

Application:

After proper surface preparation, the concrete surface will be primed using a straight tight squeegee coat of Rez-Stone 5058 epoxy (approximately 8 mil D.F.T.) After curing of the primer, all cracks and holes may be patched with a putty knife or trowel using Rez-Stone 2610 Epoxy Crack Repair kit. After patching a topcoat of Rez-Stone 5058 may be applied with a notched squeegee at the rate of 75 square feet per gallon (approximately 22 mils D.F.T.) and lightly back rolled for a smooth flat line finish. Do not allow more than 24 hours between epoxy coatings. If more time passes over, cured surface must be lightly sanded or screened before applying additional coatings to prevent inner coat adhesion problems.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

9230 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Tensile Strength ASTM D-638	2,400 psi
Compressive Strength ASTM C-579	9,200 psi
Flexural Strength ASTM D-790	4,300 psi
Tensile Elongation	10%
Bond Strength	Greater 300 psi (concrete failure)
Flammability ASTM D-635	Self-extinguishing
Electrical Conductivity	Non-conductive
Water Absorption % ASTM D-570	0.10
Color	Available in clear and all standard colors

REZ-STONE

SPECIFICATION

9315 THREE COAT EPOXY & URETHANE FLOOR SYSTEM

Description:

Rez-Stone 9315 is an economical epoxy and urethane coating system that provides 15 mil coating protection over new or like new concrete floors. Rez-Stone 9315 is designed for moderate industrial floor service, incorporating two 100% solids epoxy base coats for adhesion and filling properties followed by one coat of Rez-Stone Chemical Resistant Urethane. Rez-Stone 9315 offers a high gloss finish with excellent chemical and abrasion resistance.

Advantages:

- ✓ Economical
- ✓ High Gloss Finish
- ✓ Excellent Chemical Resistance
- ✓ Excellent Abrasion Resistance

Limitations:

- ✓ Substrate minimum temperature 55°F
- ✓ New concrete must be at least 28 days old
- ✓ Substrate must be clean and sound
- ✓ Do not apply to wet substrate or substrates exhibiting moisture vapor transmission

Coverage Nominal 15 Mils:

Prime Coat	250 Square Feet per Gallon (7mil)	Rez-Stone 5017 or 5058
Intermediate Coat	350 Square Feet per Gallon (5 mil)	Rez-Stone 5017 or 5058
Topcoat	300 Square Feet per Gallon (3 mil)	Rez-Stone 6100 or 6300

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods. Due to the relatively thin thickness of the system, brush blasting is recommended with a S-280 shot or smaller to prevent blast marks from telegraphing through the coating. Treated surfaces must be magnetically broomed to remove all steel shot, and vacuumed to remove all dust and dirt before applying any coatings.

Application:

After proper surface preparation, apply a prime coat of Rez-Stone 5017 using a flat rubber squeegee or roller. After primer has cured fill all cracks and small holes using Rez-Stone 2610 Epoxy Crack Patch. After patching apply a second coat of Rez-Stone 5017 using a squeegee, trowel or roller to achieve required thickness. After proper curing of the second coat, normally 12 to 24 hours, apply Rez-Stone 6100 or 6300 with a heavy duty roller. Do not allow epoxy to cure more than 24 hours before applying the urethane topcoat. If more time is allowed the epoxy surface must be lightly sanded or screened before applying topcoats. Slip resistant coatings may be achieved by broadcasting #25 silica into the second coat of wet epoxy or by adding Rez-Stone 2150 or 2350 non-skid additives to the urethane topcoat.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

9315 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Tensile Strength ASTM D-638	5,400 psi
Compressive Strength ASTM C-579	11,000 psi
Flexural Strength ASTM D-790	8,300 psi
Tensile Elongation	10%
Bond Strength	Greater 300 psi (concrete failure)
Flammability ASTM D-635	Self-extinguishing
Electrical Conductivity	Non-conductive
Water Absorption % ASTM D-570	0.10
Abrasion Resistance ASTM D-1044	Excellent < .03 gm weight loss (C10 wheel 1.000gm load, 1000 cycles)
Color	Available in clear and all standard colors

CHEMICAL RESISTANCE

Rez-Stone 9315 has optional finish coats with excellent resistance to most common acids, alkali, fuels, grease, salts and strong detergents. The following information is based on 24-hour spot testing at 5 mils. The information is correct to the best of our knowledge. A test area is always recommended to determine actual chemical resistance in critical situations.

Reagent	Rez-Stone 6100 Topcoat Affect	Rez-Stone 6300 Topcoat Affect
10% Acetic Acid	Unaffected	Unaffected
20% Acetic Acid	Softened	Unaffected
10% Chromic Acid	Unaffected	Unaffected
20% Hydrochloric Acid	Unaffected	Unaffected
10% Nitric Acid	Softened	Unaffected
50% Phosphoric Acid	Unaffected	Unaffected
10% Sulfuric Acid	Unaffected	Unaffected
40% Sulfuric Acid	Unaffected	Unaffected
10% Ammonium Hydroxide	Unaffected	Unaffected
50% Sodium Hydroxide	Unaffected	Unaffected
10% Tri-Sodium Phosphate	Unaffected	Unaffected
Ethyl Alcohol	Unaffected	Unaffected
Isopropyl Alcohol	Unaffected	Unaffected
Brake Fluid (Auto)	Softened	Unaffected
Skydrol 500 B Hydraulic Fluid	Softened	Unaffected
Gasoline	Unaffected	Unaffected
Jet Fuel A-1	Unaffected	Unaffected
Toluene	Unaffected	Unaffected
Methyl Chloride	Destroyed	Softened
Trichlorethylen	Softened	Softened
Mineral Spirits	Unaffected	Unaffected
Xylene	Unaffected	Unaffected
Beer	Unaffected	Unaffected
Mustard	Unaffected	Unaffected
Milk	Unaffected	Unaffected
Urine	Unaffected	Unaffected
Whiskey	Unaffected	Unaffected
Vegetable Oil	Unaffected	Unaffected
20% Sodium Chloride	Unaffected	Unaffected
10% Citric Acid	Softened	Unaffected
MEK	Softened	Unaffected

REZ-STONE

SPECIFICATION

9327 THREE COAT EPOXY & URETHANE FLOOR SYSTEM

Description:

Rez-Stone 9327 is an economical epoxy and urethane coating system that provides 27 mil coating protection over existing concrete surface where an overlayment is not needed. Rez-Stone 9327 is designed for light to medium industrial floor service, incorporating two 100% solids epoxy base coats for adhesion and one urethane topcoat. Use where high light reflectivity, outstanding abrasion resistance and easy clean ability are desired.

Advantages:

- ✓ Economical
- ✓ Easy Application
- ✓ Excellent Light Reflectivity
- ✓ High Abrasion and Chemical Resistance

Limitations:

- ✓ Substrate minimum temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Substrate must be clean and sound

Coverage:

Actual coverage may vary due to the existing surface conditions. The following can be used as a guide for new concrete conditions:

Prime Coat	175 Square Feet per Gallon (8 mil)	Rez-Stone 5058
Intermediate Coat	75 Square Feet per Gallon (16 mil)	Rez-Stone 5058
Topcoat	275-325 Square Feet per Gallon (3 mil D.F.T.)	Rez-Stone 6300

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods. Due to the relatively thin thickness of the system, brush blasting is recommended with a S-280 shot or smaller to prevent blast marks from telegraphing through the coating. Treated surfaces must be magnetically broomed to remove all steel shot, and vacuumed to remove all dust and dirt before applying any coatings.

Application:

After proper surface preparation, the concrete surface will be primed using a straight tight squeegee coat of Rez-Stone 5058 Epoxy Coating reduced 10% with Rez-Stone 1201 Epoxy Reducer (D.F.T. 8 mil.). After primer has cured fill all cracks and holes using Rez-Stone 2610 Epoxy Crack Patch. After patching apply a second coat of Rez-Stone 5058 may be applied with a notched squeegee at the rate of 100 square feet per gallon (D.F.T. 16 mil) and lightly back roll for a smooth flat line finish. A final topcoat of Rez-Stone 6300 Chemical Resistant Urethane can be roller applied for a finished system thickness of 27 mils D.F.T. Do not allow more than 24 hours between epoxy coatings and not more than 12 hours curing before applying the urethane topcoat. If more time passes over, cured surface must be lightly sanded or screened before applying further coatings to prevent inner coat adhesion problems.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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9327 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Tensile Strength ASTM D-638	5,400 psi
Compressive Strength ASTM C-579	7,200 psi
Flexural Strength ASTM D-790	8,300 psi
Tensile Elongation	10%
Bond Strength	Greater 300 psi (concrete failure)
Flammability ASTM D-635	Self-extinguishing
Electrical Conductivity	Non-conductive
Water Absorption % ASTM D-570	0.10
Color	Available in clear and all standard colors
Coefficient of Friction ASTM D-2047	
Natural Smooth Textured Finish	0.45
Add #36 Oxide to Light Textured Finish	0.60
Add #36 Oxide to Medium Textured Finish	0.65
Add #36 Oxide to Heavy Textured Finish	0.70

REZ-STONE

SPECIFICATION

9334 THREE COAT EPOXY FLOOR SYSTEM

Description:

Rez-Stone 9334 is an economical epoxy coating system, which provides hi-build 34 mil protection over new or existing concrete surfaces. Rez-Stone 9334 is designed for light-to-medium industrial floor service where textured or slip resistant finish is required. Rez-Stone 9334 incorporates a 100% solids epoxy primer, intermediate coat and topcoat for a long lasting, semi-gloss, textured finish, resistant to most common industrial cleaners and fluids. Rez-Stone 9334 is designed to eliminate the aesthetic issues that fiber reinforced concrete presents with topical floor coatings.

Advantages:

- ✓ Economical
- ✓ Easy Application
- ✓ High Abrasion Resistance
- ✓ 100 % Solids No V.O.C.

Limitations:

- ✓ Substrate minimum temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Substrate must be clean and sound
- ✓ Do not apply to wet substrate or substrates exhibiting moisture vapor transmission

Coverages:

Actual coverage may vary due to the existing surface conditions. The following can be used as a guide for new concrete conditions:

Prime Coat	175 Square Feet per Gallon (10 mil)	Rez-Stone 5017
Intermediate Coat	200 Square Feet per Gallon (8 mil)	Rez-Stone 5017
Topcoat	100 Square Feet per Gallon (16 mil)	Rez-Stone 5078

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dust, laitance, grease, curing compounds and other bond inhibiting contaminants by shot blasting, scarification or other approved mechanical methods. Due to the relatively thin thickness of the system, brush blasting is recommended with a S-280 shot or smaller to prevent blast marks from telegraphing through the coating. Treated surfaces must be magnetically cleaned to remove all steel shot, and vacuumed to remove all dust and dirt before applying any coatings.

Application:

After proper surface preparation, apply a prime coat of Rez-Stone 5017 using a flat rubber squeegee. After primer has cured, if necessary remove the synthetic or steel fibers from the surface by diamond grinding, fill all cracks and holes using Rez-Stone 2610 Epoxy Crack Repair. After patching, apply Rez-Stone 5017 intermediate coat using a flat rubber squeegee for an even finish. Do not allow intermediate coat to cure more than 24 hours before applying topcoat. If more time is allowed the over-cured surface must be lightly sanded or screened before applying additional coats. Apply Rez-Stone 5078 topcoat using a notched rubber squeegee and back roll for a uniform finish. If a more non-slip finish is desired, a clean, dry, and graded silica or white aluminum oxide aggregate may be mixed into the Rez-Stone 5078 topcoat before application, Coefficient Of Friction will vary with shape, size and density of aggregate used.

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REZ-STONE

SPECIFICATION

9334 THREE COAT EPOXY FLOOR SYSTEM

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Tensile Strength ASTM D-638	2,400 psi
Compressive Strength ASTM C-579	9,200 psi
Flexural Strength ASTM D-790	4,300 psi
Tensile Elongation	10%
Bond Strength	Greater 300 psi (concrete failure)
Flammability ASTM D-635	Self-extinguishing
Electrical Conductivity	Non-conductive
Water Absorption % ASTM D-570	0.10
Coefficient of Friction ASTM-1028-07	0.50 – 0.90 (varies with grit)
Color	Available in clear and all standard colors

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REZ-STONE

SPECIFICATION

9335-C 35 MIL STATIC CONTROL EPOXY FLOOR SYSTEM

Description:

Rez-Stone 9335-C is a 100% solids epoxy coating system, which provides hi-build 35 mil protection, with static and electrical conducting properties over new or existing concrete surfaces. Rez-Stone 9335-C is designed for light-to-medium industrial floor service where static and electrical conducting finish is required, along with increased abrasion and chemical resistance. Rez-Stone 9335-C incorporates a 100% solids epoxy base coats and topcoat for a long lasting, gloss, textured finish, resistant to most common industrial cleaners and fluids.

Advantages:

- ✓ Increased chemical resistance
- ✓ Easy-Fast Application
- ✓ High Abrasion Resistance
- ✓ Static Dissipative
- ✓ Solvent Free
- ✓ No VOC's

Limitations:

- ✓ Substrate minimum temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Substrate must be clean and dry
- ✓ Do not apply to wet substrate or substrates exhibiting moisture vapor transmission

Coverages:

Actual coverage may vary due to the existing surface conditions. The following can be used as a guide for new concrete conditions:

Prime Coat	200-250 Square Feet per Gallon	Rez-Stone 5017
Intermediate Coat	100 Square Feet per Gallon	Rez-Stone 5017
Topcoat	95 Square Feet per Gallon	Rez-Stone 5078-C

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dust, laitance, grease, curing compounds and other bond inhibiting contaminants by shot blasting, scarification or other approved mechanical methods. Due to the relatively thin thickness of the system, brush blasting is recommended with a S-280 shot or smaller to prevent blast marks from telegraphing through the coating. Treated surfaces must be magnetically broomed to remove all steel shot, and vacuumed to remove all dust and dirt before applying any coatings.

Application:

After proper surface preparation, apply a prime coat of Rez-Stone 5017 using a flat rubber squeegee or roller. After primer has cured, fill all cracks and holes using Rez-Stone 2610 Epoxy Crack Repair. After patching, apply Rez-Stone 5017 using a notched rubber squeegee or roller and backroll on spiked shoes for an even finish. Do not allow primer to cure more than 24 hours before applying base coat. If more time is allowed the over-cured surface must be lightly sanded or screened before applying additional coats. This will prevent any inner coat adhesion problems. After intermediate coat has cured apply 5078-C using a notched rubber squeegee and backroll on spiked shoes in one direction for a uniform finish. If more non-slip finish is desired a clean, dry, and graded silica or aluminum oxide aggregate may be incorporated into the Rez-Stone 5078-C topcoat. (Adding aggregate to the topcoat could cause inconsistent testing issues.)

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritations. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Tensile Strength ASTM D-638	4,256 psi
Compressive Strength ASTM C-579	12,500 psi
Flexural Strength ASTM D-790	3,900 psi
Tensile Elongation	5%
Base Coat Color	Black Only
Topcoat Colors	Most standard colors
VOC (system)	0 g/l (100% solids)
Shore “D” Hardness ASTM D-2240	81-85
Water Absorption ASTM C-413	0.2%
Percent Elongation ASTM D-638	0.2
Abrasion Resistance ASTM D 1044	30 to 40 mg loss
Moisture Vapor Permeability ASTM E96-80	0.06 perms
Thermal Shock Resistance ASTM C-884	Passes
Flammability ASTM D-635	Self-extinguishing
Slip Resistance ASTM D 2047	passes, greater than 0.5 COF
Thermal Coefficient of Linear Expansion ASTM D-696	2.5 x 10-5 in/in/deg F
Impact Resistance ASTM D 2794	160 inch-pounds
Bond Strength ACI Committee 503R-5	400 psi (100% concrete failure)
Flammability ASTM D-635	Self-extinguishing
Electrical Resistance ANSI/ESD STM7.1 - 2020	$<3.5 \times 10^{7}$ ohms
Body Voltage Generation ANSI/ESD STM97.2 - 2016	<100 volts with heel straps

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REZ-STONE

SPECIFICATION

9335-C 35 MIL STATIC CONTROL NOVOLAC EPOXY FLOOR SYSTEM

Description:

Rez-Stone 9335-C is an epoxy novolac coating system, which provides hi-build 35 mil protection, with static and electrical conducting properties over new or existing concrete surfaces. Rez-Stone 9335-C is designed for light-to-medium industrial floor service where static and electrical conducting finish is required, along with increased chemical resistance. Rez-Stone 9335-C incorporates a conductive 100% solids epoxy base coats and topcoat for a long lasting, semi-gloss, textured finish, resistant to most common industrial cleaners and fluids.

Advantages:

- ✓ Increased Chemical Resistance
- ✓ Easy-Fast Application
- ✓ High Abrasion Resistance
- ✓ Non-Slip and Conductive Finish

Limitations:

- ✓ Substrate minimum temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply over wet substrate
- ✓ Novolac materials are not UV color stable and may yellow or fade

Coverages:

Actual coverage may vary due to the existing surface conditions. The following can be used as a guide for new concrete conditions:

Prime Coat	200 - 250 Square Feet per Gallon	Rez-Stone 5517
Intermediate Coat	100 Square Feet per Gallon	Rez-Stone 5517
Topcoat	90 - 95 Square Feet per Gallon	Rez-Stone 5579-C

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods. Due to the relatively thin thickness of the system, brush blasting is recommended with a S-280 shot or smaller to prevent blast marks from telegraphing through the coating. Treated surfaces must be magnetically broomed to remove all steel shot, and vacuumed to remove all dust and dirt before applying any coatings.

Application:

After proper surface preparation, apply a prime coat of Rez-Stone 5517 using a flat rubber squeegee or roller. After primer has cured, fill all cracks and holes using Rez-Stone 2610 Epoxy Crack Repair. After patching, apply Rez-Stone 5517 using a notched rubber squeegee or roller and backroll on spiked shoes for an even finish. Do not allow primer to cure more than 24 hours before applying base coat. If more time is allowed the over-cured surface must be lightly sanded or screened before applying additional coats. This will prevent any inner coat adhesion problems. After intermediate coat has cured apply 5579-C using a notched rubber squeegee and backroll on spiked shoes in one direction for a uniform finish. If more non-slip finish is desired a clean, dry, and graded silica or aluminum oxide aggregate may be incorporated into the Rez-Stone 5579-C topcoat. (Adding aggregate to the topcoat could cause inconsistent testing issues.)

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective SDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Compressive Strength ASTM C-579	12,500 psi
Tensile Strength ASTM D-638	4,256 psi
Flexural Strength ASTM D-790	3,900 psi
Shore “D” Hardness ASTM D-2240	85 - 90
Water Absorption ASTM C-413	0.2%
Percent Elongation ASTM D-638	0.2
Abrasion Resistance ASTM D-4060	0.1 gram
Moisture Vapor Permeability ASTM E96-80	0.06 perms
Thermal Shock Resistance ASTM C-884	Passes
Flammability ASTM D-635	Self-extinguishing
Static Coefficient of Friction ASTM C-1028	0.5 to 0.9 will vary with selected finish
Thermal Coefficient of Linear Expansion ASTM D-696	2.5×10^{-5} in/in/deg F
Impact Resistance MIL-D-3134F	No Indention
Bond Strength ACI Committee 403/59-43	350 psi (100% concrete failure)
Electrical Resistance ANSI/ESD STM7.1 - 2020	$<3.5 \times 10^{7}$ ohms
Body Voltage Generation ANSI/ESD STM97.2 - 2016	<100 volts with heel straps
Base Coat Color	Available in most standard colors
Topcoat Color	Available in most standard colors

CHEMICAL RESISTANCE

Rez-Stone 9335-C has excellent resistance to most acids, alkali, solvents, fuels, grease, salts and strong detergents. The following information is a guide for determining suitable applications of Rez-Stone 9335-C. The following information is based on tests conducted on totally cured samples immersed for a period of 24 hours. Rez-Stone 9335-C is not recommended for constant immersion or long term containment of any chemicals but is recommended for splash spills and short term containment at room temperature as indicated below. In all cases some discoloration may occur.

Reagent	Affect
Acetic Acid	Up to 10%
Sulfuric Acid	Up to 50%
Nitric Acid	Up to 20%
Phosphoric Acid	Up to 20%
Hydrochloric Acid	Up to 20%
Ammonium Hydroxide	Up to 20%
Sodium Hydroxide	Up to 50%
Tri-Sodium Phosphate	Up to 50%
Brake Fluid	100%
Gasoline	100%
A-1 Jet Fuel	100%
MEK	100%
Mineral Spirits	100%
Fuel Oil	100%
Xylene	100%
Beer	100%
Milk	100%
Whiskey	100%
Vegetable Oil	100%
Tomato Paste	100%

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REZ-STONE

SPECIFICATION

9340 – C 40 MIL STATIC CONTROL NOVOLAC EPOXY FLOOR TOPPING

Description:

Rez-Stone 9340-C is an epoxy novolac coating system, which provides hi-build 40 mil protection, with static and electrical conducting properties over new or existing concrete surfaces. Rez-Stone 9340-C is designed for light-to-medium industrial floor service where static and electrical conducting finish is required, along with increased chemical resistance. Rez-Stone 9340-C incorporates a conductive 100% solids epoxy base coats and topcoat for a long lasting, semi-gloss, textured finish, resistant to most common industrial cleaners and fluids.

Advantages:

- ✓ Increased Chemical Resistance
- ✓ Easy-Fast Application
- ✓ High Abrasion Resistance
- ✓ Non-Slip and Conductive Finish

Limitations:

- ✓ Substrate minimum temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply over wet substrate
- ✓ Novolac materials are not UV color stable and may yellow or fade

Coverage Rate at 40 mil Thickness

Prime Coat	200 - 250 Square Feet per Gallon	Rez-Stone 5517
Base Coat	100 Square Feet per Gallon	Rez-Stone 5579
Topcoat	90 - 95 Square Feet per Gallon	Rez-Stone 5579-C

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods. Due to the relatively thin thickness of the system, brush blasting is recommended with a S-280 shot or smaller to prevent blast marks from telegraphing through the coating. Treated surfaces must be magnetically broomed to remove all steel shot, and vacuumed to remove all dust and dirt before applying any coatings.

Application:

After proper surface preparation, apply a prime coat of Rez-Stone 5517 using a flat rubber squeegee or roller. After primer has cured, fill all cracks and holes using Rez-Stone 2610 Epoxy Crack Repair. After patching, apply Rez-Stone 5579 using a notched rubber squeegee or roller and backroll on spiked shoes for an even finish. Do not allow primer to cure more than 24 hours before applying base coat. If more time is allowed the over-cured surface must be lightly sanded or screened before applying additional coats. This will prevent any inner coat adhesion problems. After base coat has cured apply 5579-C using a notched rubber squeegee and backroll on spiked shoes in one direction for a uniform finish. If more non-slip finish is desired a clean, dry, and graded silica or aluminum oxide aggregate may be incorporated into the Rez-Stone 5579-C topcoat. (Adding aggregate to the topcoat could cause inconsistent testing issues.)

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective SDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Compressive Strength ASTM C-579	12,500 psi
Tensile Strength ASTM D-638	4,256 psi
Flexural Strength ASTM D-790	3,900 psi
Shore “D” Hardness ASTM D-2240	85 - 90
Water Absorption ASTM C-413	0.2%
Percent Elongation ASTM D-638	0.2
Abrasion Resistance ASTM D-4060	0.1 gram
Moisture Vapor Permeability ASTM E96-80	0.06 perms
Thermal Shock Resistance ASTM C-884	Passes
Flammability ASTM D-635	Self-extinguishing
Static Coefficient of Friction ASTM C-1028	0.5 to 0.9 will vary with selected finish
Thermal Coefficient of Linear Expansion ASTM D-696	2.5×10^{-5} in/in/deg F
Impact Resistance MIL-D-3134F	No Indention
Bond Strength ACI Committee 403/59-43	350 psi (100% concrete failure)
Electrical Resistance ANSI/ESD STM7.1 - 2020	$<3.5 \times 10^{7}$ ohms
Body Voltage Generation ANSI/ESD STM97.2 - 2016	<100 volts with heel straps
Base Coat Color	Available in most standard colors
Topcoat Color	Available in most standard colors

CHEMICAL RESISTANCE

Rez-Stone 9340-C has excellent resistance to most acids, alkali, solvents, fuels, grease, salts and strong detergents. The following information is a guide for determining suitable applications of Rez-Stone 9340-C. The following information is based on tests conducted on totally cured samples immersed for a period of 24 hours. Rez-Stone 9340-C is not recommended for constant immersion or long term containment of any chemicals but is recommended for splash spills and short term containment at room temperature as indicated below. In all cases some discoloration may occur.

Reagent	Affect
Acetic Acid	Up to 10%
Sulfuric Acid	Up to 50%
Nitric Acid	Up to 20%
Phosphoric Acid	Up to 20%
Hydrochloric Acid	Up to 20%
Ammonium Hydroxide	Up to 20%
Sodium Hydroxide	Up to 50%
Tri-Sodium Phosphate	Up to 50%
Brake Fluid	100%
Gasoline	100%
A-1 Jet Fuel	100%
MEK	100%
Mineral Spirits	100%
Fuel Oil	100%
Xylene	100%
Beer	100%
Milk	100%
Whiskey	100%
Vegetable Oil	100%
Tomato Paste	100%

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REZ-STONE

SPECIFICATION

9400 EPOXY BROADCAST FLOOR SYSTEM

Description:

Rez-Stone 9400 is a silica aggregate filled epoxy floor system that provides hi-build protection, up to 1/8" D.F.T., over existing concrete substrates. Rez-Stone 9400 is designed for medium to high industrial traffic areas where varying degrees of non-slip are required. Rez-Stone 9400 incorporates multiple epoxy base coats with a broadcast silica aggregate. Use Rez-Stone 9400 where chemical, wear, impact resistance and non-slip is required.

Advantages:

- ✓ Economical Hi-Build Aggregate Filled Protection
- ✓ Easy Application, No Trowel Marks
- ✓ Varying Degrees of Non-Slip
- ✓ High Abrasion, Impact and Chemical Resistance
- ✓ Variable Thickness from 1/16" to 1/8"

Limitations:

- ✓ Substrate minimum temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Substrate must be clean and sound
- ✓ Do not apply to wet substrate or substrates exhibiting moisture vapor transmission

Coverage at Nominal 1/16" Thickness:

Prime Coat	175-225 Square Feet per Gallon	Rez-Stone 5017 or 5058
Binder Coat	90 Square Feet per Gallon	Rez-Stone 5017 or 5058
Broadcast Aggregate	1 Pound per Square Foot	#25 Mesh Dry Silica
Topcoat	90 Square Feet per Gallon	Rez-Stone 5058

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Application:

After proper surface preparation, apply a prime coat using Rez-Stone 5058 and a flat rubber squeegee or roller. After primer has cured, fill all cracks and holes using Rez-Stone 2610 Epoxy Crack Repair. After patching apply a binder coat of Rez-Stone 5058 using 3/16" notched rubber squeegee. If necessary, back roll to help leveling. Slowly broadcast a dry #25 mesh silica aggregate so that the sand falls vertically into the binder. Continue to broadcast lightly, making several passes allowing binder to bleed through the sand before making next pass. Cover completely with sand (to excess) before binder becomes tack free. After curing of broadcast binder, remove excess sand. NOTE: If a finished system thickness of greater than 1/16" is needed repeat the above process. For a more aggressive finish, topcoat with Rez-Stone 5058 using a steel trowel, flat rubber squeegee or roller

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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9400 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Tensile Strength ASTM D-638	5,400 psi
Compressive Strength ASTM C-579	10,000 psi
Tensile Elongation	6-8%
Bond Strength ACI Committee 403/59-43	350 psi (100% concrete failure)
Flammability ASTM D-635-63	Self-extinguishing
Electrical Conductivity	Non-conductive
Water Absorption % ASTM D-570-63	0.10
Color	Available in all standard colors
Pot Life	20-25 Minutes @ 70°F
Cure Times:	
Tack Free Set for Recoat	6 Hours @ 70°F
Initial Set for Light Traffic	16 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F

REZ-STONE

SPECIFICATION

9400-RVC RANDOM VINYL CHIP BROADCAST FLOOR SYSTEM

Description:

Rez-Stone 9400-RVC is a Random Vinyl Chip Broadcast 100% solids epoxy floor system that provides hi-build decorative protection, up to 34 mills D.F.T., over new and existing concrete substrates. Rez-Stone 9400-RVC Broadcast is designed for light to medium commercial and industrial traffic areas, where varying degrees of non-slip and extended wear resistance are required. Rez-Stone 9400-RVC Broadcast incorporates an epoxy prime coat, base coat with a random broadcast of vinyl chips and a topcoat of clear 100% solids epoxy. Use Rez-Stone 9400-RVC Broadcast where chemical, wear, impact resistance and non-slip are required.

Advantages:

- ✓ Economical Hi-Build Aggregate Filled Protection
- ✓ Easy Application, No Trowel Marks
- ✓ Varying Degrees of Non-Slip
- ✓ High Abrasion, Impact and Chemical Resistance
- ✓ Thickness 34 mils D.F.T.

Limitations:

- ✓ Substrate minimum temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Substrate must be clean and sound
- ✓ Do not apply to wet substrate or substrates exhibiting moisture vapor transmission

Coverages at Nominal 1/16" Thickness:

Prime Coat	175-225 Square Feet per Gallon	Rez-Stone 5017 or 5058
Binder Coat	90-125 Square Feet per Gallon	Rez-Stone 5017 or 5058
Broadcast Chips	1 Pound per 100 Square Feet	Vinyl Chip
Topcoat	90-125 Square Feet per Gallon	Rez-Stone 5058 or 6500

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Application:

After proper surface preparation, apply a prime coat using Rez-Stone 5058 and a flat rubber squeegee or roller. After primer has cured, fill all cracks and holes using Rez-Stone 2610 Epoxy Crack Repair. After patching apply a binder coat of Rez-Stone 5058 using 3/16" notched rubber squeegee. If necessary, back roll to help leveling. Randomly broadcast vinyl chips so that it falls vertically into the binder. After curing of broadcast binder, remove excess chip and topcoat with clear Rez-Stone 5058 Epoxy or 6500 Urethane to desired finish.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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9400-RVC TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Tensile Strength ASTM D-638	5,400 psi
Compressive Strength ASTM C-579	10,000 psi
Tensile Elongation	6-8%
Bond Strength ACI Committee 403/59-43	350 psi (100% concrete failure)
Flammability ASTM D-635-63	Self-extinguishing
Coefficient of Friction, depends on oxide size and finish applied	0.5 to 1.25
Water Absorption % ASTM D-570-63	0.10
Color	Available in all standard colors
Pot Life	20-25 Minutes @ 70°F
Cure Times:	
Tack Free Set for Recoat	6 Hours @ 70°F
Initial Set for Light Traffic	16 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F

REZ-STONE

SPECIFICATION

9402 EPOXY BROADCAST FLOOR SYSTEM

Description:

Rez-Stone 9402 is a silica aggregate filled epoxy floor system that provides hi-build protection, up to 1/8" D.F.T., over existing concrete substrates. Rez-Stone 9402 is designed for medium to high industrial traffic areas where varying degrees of non-slip are required. Rez-Stone 9402 incorporates multiple epoxy base coats with a broadcast silica aggregate. Use Rez-Stone 9402 where chemical, wear, impact resistance and non-slip are required.

Advantages:

- ✓ Economical Hi-Build Aggregate Filled Protection
- ✓ Easy Application, No Trowel Marks
- ✓ Varying Degrees of Non-Slip
- ✓ High Abrasion, Impact and Chemical Resistance
- ✓ Variable Thickness up to 1/8"

Limitations:

- ✓ Substrate minimum temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Substrate must be clean and sound
- ✓ Do not apply to wet substrate or substrates exhibiting moisture vapor transmission

Coverage at Nominal 1/16" Thickness:

Prime Coat	175-225 Square Feet per Gallon	Rez-Stone 5017 or 5058
Binder Coat	90 Square Feet per Gallon	Rez-Stone 5017 or 5058
Broadcast Aggregate	1 Pound per Square Foot	#25 Mesh Dry Silica
Binder Coat	90 Square Feet per Gallon	Rez-Stone 5017 or 5058
Broadcast Aggregate	1 Pound per Square Foot	#25 Mesh Dry Silica
Topcoat	90 Square Feet per Gallon	Rez-Stone 5058

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Application:

After proper surface preparation, apply a prime coat using Rez-Stone 5058 and a flat rubber squeegee or roller. After primer has cured, fill all cracks and holes using Rez-Stone 2610 Epoxy Crack Repair. After patching, apply a binder coat of Rez-Stone 5058 using 3/16" notched rubber squeegee. If necessary, back roll to help leveling. Slowly broadcast a dry #25 mesh silica aggregate so that the sand falls vertically into the binder. Continue to broadcast lightly, making several passes allowing binder to bleed through the sand before making next pass. Cover completely with sand (to excess) before binder becomes tack free. After curing of broadcast binder, remove excess sand. Repeat the above process. For a more aggressive finish, topcoat with Rez-Stone 5058 using a steel trowel, flat rubber squeegee or roller

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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9402 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Tensile Strength ASTM D-638	5,400 psi
Compressive Strength ASTM C-579	10,000 psi
Tensile Elongation	6-8%
Bond Strength ACI Committee 403/59-43	350 psi (100% concrete failure)
Flammability ASTM D-635-63	Self-extinguishing
Electrical Conductivity	Non-conductive
Water Absorption % ASTM D-570-63	0.10
Color	Available in all standard colors
Pot Life	20-25 Minutes @ 70°F
Cure Times:	
Tack Free Set for Recoat	6 Hours @ 70°F
Initial Set for Light Traffic	16 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F

TYPICAL PROPERTIES OF CURED SYSTEM

Tensile Strength ASTM D-638	2,450 psi
Compressive Strength ASTM C-579	13,500 psi
Flexural Strength ASTM D-790	3,600 psi

REZ-STONE

SPECIFICATION

9410 1/16" COLOR QUARTZ BROADCAST FLOOR SYSTEM

Description:

Rez-Stone 9410 is a nominal 1/16" seamless, decorative color quartz broadcast system utilizing 100% solids epoxy, color quartz aggregate and optional urethane finish coats. Rez-Stone 9410 is ideally suited for new or like new floors in moderate traffic areas. Rez-Stone 9410 is designed with a textured surface for slip resistance in commercial and industrial applications.

Advantages:

- ✓ Meets USDA Requirements
- ✓ Excellent Chemical, impact and abrasion resistance
- ✓ Varying Degrees of Slip Resistance
- ✓ Satin or gloss finish
- ✓ Seamless cove base available

Limitations:

- ✓ Substrate minimum temperature 55°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply to wet substrate

Coverage at Nominal 1/16" Thickness:

Prime Coat	200 Square Feet per Gallon	Rez-Stone 5017 or 5058
Binder Coat	90 Square Feet per Gallon	Rez-Stone 5017 or 5058
Broadcast Aggregate	1 Pound per Square Foot	#28 Mesh Dry Silica
Seal Coat	85 Square Feet per Gallon (Light Textured Finish)	Rez-Stone 5058
	100 Square Feet per Gallon (Medium Textured Finish)	Rez-Stone 5058
Optional Topcoat	375 Square Feet per Gallon	Rez-Stone 6300

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods. Due to the relatively thin thickness of the system, brush blasting is recommended with a S-280 shot or smaller to prevent blast marks from telegraphing through the coating. Treated surfaces must be magnetically broomed to remove all steel shot and vacuumed to remove all dust and dirt before applying any coatings.

Application:

After proper surface preparation, apply a prime coat using Rez-Stone 5017 a trowel, flat squeegee or roller. After primer has cured, fill all cracks and holes using Rez-Stone 2610 Epoxy Crack Repair kit. After patching, apply a binder coat of Rez-Stone 5017 using 3/16" notched trowel or squeegee. If necessary, back roll to help leveling. Slowly broadcast a dry #28 color quartz aggregate so that it falls vertically into the binder. Continue to broadcast lightly, making several passes allowing binder to bleed through the aggregate before making next pass. Cover the wet binder completely with color quartz (to excess) before binder becomes tack free. After curing of broadcast binder, remove excess quartz by broom sweeping. Apply Rez-Stone 5058 seal coat using a flat trowel, squeegee or roller to match finished textured desired. After curing of the seal coat an optional topcoat of Rez-Stone 6300 may be roller applied for added gloss retention and chemical resistance.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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9410 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Tensile Strength ASTM D-638	5,400 psi
Compressive Strength ASTM C-579	10,000 psi
Tensile Elongation	6-8%
Bond Strength ACI Committee 403/59-43	350 psi (100% concrete failure)
Flammability ASTM D-635-63	Self-extinguishing
Electrical Conductivity	Non-conductive
Water Absorption % ASTM D-570-63	0.10
Color	Available in all standard colors
Pot Life	20-25 Minutes @ 70°F
Cure Times:	
Tack Free Set for Recoat	6 Hours @ 70°F
Initial Set for Light Traffic	16 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F

REZ-STONE

SPECIFICATION

9412 1/8" COLOR QUARTZ DOUBLE BROADCAST FLOOR SYSTEM

Description:

Rez-Stone 9412 is a nominal 1/8" seamless, decorative color quartz broadcast system utilizing 100% solids epoxy with two broadcast coats of color quartz aggregate and optional urethane finish coats. Rez-Stone 9412 is ideally suited for existing concrete floors or new floors where added thickness or impact resistance is needed. Textured finishes on the Rez-Stone 9412 system can be used in commercial and industrial applications.

Advantages:

- ✓ Meets USDA Requirements
- ✓ Excellent Chemical, impact and abrasion resistance
- ✓ Varying Degrees of Slip Resistance
- ✓ Satin or gloss finish
- ✓ Seamless cove base available

Limitations:

- ✓ Substrate minimum temperature 55°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply to wet substrate

Coverage at Nominal 1/16" Thickness:

Prime Coat	200 Square Feet per Gallon	Rez-Stone 5017 or 5058
Broadcast Aggregate	½ Pound per Square Foot	#28 Color Quartz
Binder Coat	90 Square Feet per Gallon	Rez-Stone 5017 or 5058
Broadcast Aggregate	½ Pound per Square Foot	#28 Color Quartz
Seal Coat	85 Square Feet per Gallon (Light Textured Finish)	Rez-Stone 5058
	100 Square Feet per Gallon (Medium Textured Finish)	Rez-Stone 5058
Optional Topcoat	275 Square Feet per Gallon	Rez-Stone 6300

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods. Due to the relatively thin thickness of the system, brush blasting is recommended with a S-280 shot or smaller to prevent blast marks from telegraphing through the coating. Treated surfaces must be magnetically broomed to remove all steel shot and vacuumed to remove all dust and dirt before applying any coatings.

Application:

After proper surface preparation, apply a prime coat using Rez-Stone 5017 using a trowel, flat squeegee or roller. After primer has cured, fill all cracks and holes using Rez-Stone 2610 Epoxy Crack Repair kit. After patching, apply a binder coat of Rez-Stone 5017 using a 3/16" notched trowel or squeegee. If necessary, back roll to help leveling. Slowly broadcast a dry #28 color quartz aggregate so that it falls vertically into the binder. Continue to broadcast lightly, making several passes allowing binder to bleed through the aggregate before making next pass. Cover the wet binder completely with color quartz (to excess) before binder becomes tack free. After curing of broadcast binder, remove excess quartz by broom sweeping. Apply Rez-Stone 5058 seal coat using a flat trowel, squeegee or roller to match finished textured desired. After curing of the seal coat an optional topcoat of Rez-Stone 6300 may be roller applied for added gloss retention and chemical resistance.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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9412 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Tensile Strength ASTM D-638	5,400 psi
Compressive Strength ASTM C-579	10,000 psi
Tensile Elongation	6-8%
Bond Strength ACI Committee 403/59-43	350 psi (100% concrete failure)
Flammability ASTM D-635-63	Self-extinguishing
Electrical Conductivity	Non-conductive
Water Absorption % ASTM D-570-63	0.10
Color	Available in all standard colors
Pot Life	20-25 Minutes @ 70°F
Cure Times:	
Tack Free Set for Recoat	6 Hours @ 70°F
Initial Set for Light Traffic	16 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F

REZ-STONE

SPECIFICATION

9452 NOVOLAC BROADCAST FLOOR SYSTEM

Description:

Rez-Stone 9452 is a silica aggregate filled epoxy Novolac floor system that provides hi-build protection, up to 1/8" D.F.T., over existing concrete substrates. Rez-Stone 9452 is designed for medium to high industrial traffic areas where a high degree of chemical resistance is required. Rez-Stone 9452 incorporates multiple epoxy Novolac base coats with a broadcasted silica aggregate. Use Rez-Stone 9452 where extreme chemical, wear, impact resistance and non-slip are required.

Advantages:

- ✓ Excellent Chemical Resistance
- ✓ Easy Application – No Trowel Marks
- ✓ Varying Degrees of Non-Slip
- ✓ High Abrasion, Impact Resistance
- ✓ Variable Thickness up to 1/8"

Limitations:

- ✓ Substrate minimum temperature 55°F
- ✓ New concrete must be at least 28 days old
- ✓ Substrate must be clean and sound
- ✓ Do not apply to wet substrate or substrates exhibiting moisture vapor transmission.

Coverage at Nominal 1/8" Thickness:

Prime Coat	175-225Square Feet per Gallon	Rez-Stone 5517
Binder Coat	90 Square Feet per Gallon	Rez-Stone 5517
Broadcast Aggregate	1 Pound per Square Foot	#25 Mesh Dry Silica
Binder Coat	90 Square Feet per Gallon	Rez-Stone 5517
Broadcast Aggregate	1 Pound per Square Foot	#25 Mesh Dry Silica
Topcoat	90 Square Feet per Gallon	Rez-Stone 5559

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Application:

After proper surface preparation, apply a prime coat using Rez-Stone 5517 using a flat rubber squeegee or roller. After primer has cured, fill all cracks and holes using Rez-Stone 2610 Epoxy Crack Repair. After patching, apply a binder coat of Rez-Stone 5517 using a 3/16" notched rubber squeegee. If necessary, back roll to help leveling. Slowly broadcast a dry #25 silica mesh aggregate so that the sand falls vertically into the binder. Continue to broadcast lightly, making several passes allowing binder to bleed through the sand before making next pass. Cover completely with sand (to excess) before binder becomes tack free. After curing of broadcast binder, remove excess sand. Repeat the above process. For a more aggressive finish, topcoat with Rez-Stone 5558, using a steel trowel, flat rubber squeegee or a roller.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

9452 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED BINDER

Tensile Strength ASTM D-638	4,975 psi
Compressive Strength ASTM C-579	15,360 psi
Tensile Elongation	6-8%
Bond Strength ACI Committee 403/59-43	350 psi (100% concrete failure)
Flammability ASTM D-635-63	Self-extinguishing
Electrical Conductivity	Non-conductive
Water Absorption % ASTM D-570-63	0.10
Color	Available in all standard colors
Pot Life	15-20 Minutes @ 70°F
Cure Times:	
Tack Free Set for Recoat	5 Hours @ 70°F
Initial Set for Light Traffic	12 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F

TYPICAL PROPERTIES OF CURED SYSTEM

Tensile Strength ASTM D-638	2,250 psi
Compressive Strength ASTM C-579	13,705 psi
Flexural Strength ASTM D-790	5,330 psi

CHEMICAL RESISTANCE

Rez-Stone 9452 has excellent resistance to most acids, alkali, solvents, fuels, grease, salts and strong detergents. The following information is a guide for determining suitable applications of Rez-Stone 9452. The following information is based on tests conducted on totally cured samples immersed for a period of 48 hours. Rez-Stone 9452 is not recommended for constant immersion or long term containment of any chemicals but is recommended for splash spills and short term containment as indicated below.

Up to 10%	Acetic Acid
Up to 50%	Sulfuric Acid
Up to 20%	Nitric Acid
Up to 20%	Phosphoric Acid
Up to 20%	Muratic Acid
Up to 20%	Ammonium Hydroxide
Up to 50%	Sodium Hydroxide
	Tri Sodium Phosphate
	Xylene
	MEK
	Mineral Spirits
	Brake Fluid
	Gasoline
	Fuel Oil
	A-1 Jet Fuel
	Beer
	Whiskey
	Tomato Paste
	Milk
	Vegetable Oil

REZ-STONE

SPECIFICATION

9490-C 1/16" STATIC CONTROL EPOXY BROADCAST FLOOR SYSTEM

Description:

Rez-Stone 9490-C is a silica aggregate filled epoxy floor system that provides hi-build protection, up to 1/16" D.F.T., over existing concrete substrates. Rez-Stone 9490-C is designed for medium to high industrial traffic areas where varying degree of non-slip is required. Rez-Stone 9490-C incorporates multiple epoxy base coats with a silica aggregate and a conductive topcoat. Use Rez-Stone 9490-C where chemical, wear, impact resistance and static dissipative properties throughout are needed.

Advantages:

- ✓ Economical Hi-Build Aggregate Filled Protection
- ✓ Excellent Conductive and Static Dissipating Properties
- ✓ Varying Degrees of Non-Slip
- ✓ High Abrasion, Impact and Chemical Resistance
- ✓ Variable Thickness up to 1/16"

Limitations:

- ✓ Substrate minimum temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Substrate must be clean and sound
- ✓ Do not apply to wet substrate or substrates exhibiting moisture vapor transmission.

Coverages at Nominal 1/16" Thickness:

Prime Coat	175-200 Square Feet per Gallon	Rez-Stone 5017
Binder Coat	90 Square Feet per Gallon	Rez-Stone 5017
Silica Aggregate	1Pound per Square Foot	#25 Mesh Dry Silica
Conductive Topcoat	90 Square Feet per Gallon	Rez-Stone 5078-C

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Application:

After proper surface preparation, apply a prime coat using Rez-Stone 5017 using a flat rubber squeegee or roller. After primer has cured, fill all cracks and holes using Rez-Stone 2610 Epoxy Crack Repair. After patching, apply a binder coat of Rez-Stone 5017, mixed 1 to 1 by volume with dry #25 silica aggregate, using a gauged rake or 3/16" notched rubber squeegee. If necessary, back roll to help leveling. Before curing, lay grounding straps into wet material near all grounding points. After curing of binder coat, connect all grounding straps to grounding points before topcoating. Topcoat with Rez-Stone 5078-C using a notched rubber squeegee at the rate of 90 square feet per gallon.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED BINDER

Tensile Strength ASTM D-638	5,400 psi
Compressive Strength ASTM C-579	10,000 psi
Tensile Elongation	6-8%
Bond Strength ACI Committee 403/59-43	350 psi (100% concrete failure)
Flammability ASTM D-635-63	Self-extinguishing
Electrical Resistance ANSI/ESD STM7.1 - 2020	$<3.5 \times 10^7$ ohms
Body Voltage Generation ANSI/ESD STM97.2 - 2016	<100 volts with heel straps
Water Absorption % ASTM D-570-63	0.10
Body Coat Color	Black Only
Topcoat Colors	Available in all standard colors
Pot Life	20-25 Minutes @ 70°F
Cure Times:	
Tack-Free Set for Recoat	6 Hours @ 70°F
Initial Set for Light Traffic	16 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F

REZ-STONE

SPECIFICATION

9500 EPOXY FLOOR TOPPING SYSTEM

Description:

Rez-Stone 9500 is a three component 100% solids epoxy based mortar flooring system. Rez-Stone 9500 can be used where rapid strength gaining overlayment is required. When applied at ¼" it is more impact, chemical and wear-resistant than conventional floor systems. Recommended for economical leveling or resurfacing of concrete areas of floors subjected to heavy industrial use.

Advantages:

- ✓ Economical
- ✓ 100% solids, can be applied at any thickness when necessary
- ✓ Excellent chemical, impact, and abrasion resistance
- ✓ Non-slip finishes available
- ✓ Seamless cove base available
- ✓ USDA compliant materials

Limitations:

- ✓ Substrate minimum temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply over wet substrate
- ✓ Expansion joints must be re-cut through topping

Coverage at Normal ¼" Thickness:

Prime Coat	175 – 225 Square Feet per Gallon	Rez-Stone 5014 or 5017
Matrix Binder	25 Square Feet per Gallon	Rez-Stone 5014 or 5017
Matrix Aggregate	2 Pounds per Square Foot	Blended Aggregate
Chemical Resistant Topcoat	90 Square Feet per Gallon	Rez-Stone 5078 or 5079

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Application:

After proper surface preparation, the concrete surface will be primed using Rez-Stone 5017 Primer Binder using a heavy duty medium nap roller. Lightly broadcast 1 pound per 5 square feet of blended aggregate into the wet primer to help trowel ability. (Note: Matrix may be placed immediately, but do not allow primer to cure for more than 24 hours before placement of overlay.) Blend proportioned amounts of Rez-Stone 5017 Part A and Part B for 3 minutes using mechanical agitation. Load proportioned matrix aggregate into a paddle or screw type mortar mixer followed by the pre-blended 5017 Binder. Mix for 1 minute. Place mixed material onto floor using a screened box or straight edge. Power trowel the placed matrix for a smooth compacted finish. Allow matrix to cure for 8-10 hours or until tack free. Once matrix has cured it should be lightly scraped with an ice spud or similar scraping tool and broom swept before topcoating. Roller-apply Rez-Stone 5078 100% solids epoxy topcoat at a rage of 90 square feet per gallon for a lightly textured finish. If a non-slip finish is needed a silica or aluminum oxide aggregate may be incorporated into the topcoat.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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9500 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Working Time	30-35 minutes @ 70°F
Cure Time: Initial Set for Light Traffic	16 hours @ 70°F
Cure Time: Ultimate Cure	7 days @ 70°F
Compressive Strength ASTM C-579	11,000 psi
Tensile Strength ASTM C-307	1,890 psi
Flexural Strength ASTM C-580	4,500 psi
Shore "D" Hardness ASTM D-2240	85
Water Absorption ASTM C-413	0.2%
Percent Elongation ASTM D-638	0.2
Abrasion Resistance ASTM D-4060	0.1 gram
Moisture Vapor Permeability ASTM E96-80	0.06 perms
Thermal Shock Resistance ASTM C-884	Passes
Flammability ASTM D-635	Self-extinguishing
Flame Spread ASTM E-84	Class B
Static Coefficient of Friction ASTM C-1028	0.5 to 0.9 will vary with selected finish
Thermal Coefficient of Linear Expansion ASTM D-696	2.5×10^{-5} in/in/deg F
Impact Resistance MIL-D-3134F	No Indention
Bond Strength ACI Committee 403/59-43	350 psi (100% concrete failure)
Electrical Resistivity, NFPA Bulletin #56A	Non-conductive
Color	Available in all standard colors.

CHEMICAL RESISTANCE

Rez-Stone 9500 has good resistance to most common acids, alkali, fuels, grease, salts and strong detergents. The following information is based on 7-day soak testing with 5017 binder and 5078 topcoat. The information is correct to the best of our knowledge. A test area is always recommended to determine actual chemical resistance in critical situations.

Reagent	Affect
5% Acetic Acid	Unaffected
10% Sulfuric Acid	Discolored
5% Nitric Acid	Unaffected
10% Nitric Acid	Discolored
10% Phosphoric Acid	Discolored
10% Hydrochloric Acid	Unaffected
20% Ammonium Hydroxide	Unaffected
20% Sodium Hydroxide	Unaffected
10% Tri-Sodium Phosphate	Unaffected
Brake Fluid (Auto)	Softened
Gasoline	Unaffected
Jet Fuel JP4	Unaffected
Ethyl Alcohol	Softened
MEK	Destroyed
Methyl Chloride	Destroyed
Mineral Spirits	Unaffected
Motor Oil	Unaffected
Xylene	Softened
Soda Pop	Unaffected
Beer	Unaffected
Cola Syrup	Unaffected
Mustard	Unaffected
Milk	Unaffected
Urine	Unaffected
Whiskey	Unaffected
Vegetable Oil	Unaffected
Distilled Water	Unaffected
Salt Water	Unaffected

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REZ-STONE

SPECIFICATION

9500-C STATIC CONTROL ¼" EPOXY FLOOR TOPPING

Description:

Rez-Stone 9500-C is a nominal 3/16" epoxy based floor system, which provides excellent static charge dissipating capabilities. Rez-Stone 9500-C can be used where rapid strength gaining overlayment is required. When applied at 3/16" it is more impact, chemical, and wear-resistant than conventional floor systems. Typically recommended for economical leveling or resurfacing of concrete floor areas subjected to heavy industrial use, where static discharging is necessary.

Advantages:

- ✓ Economical
- ✓ Short Downtime
- ✓ Excellent Chemical, Impact and Abrasion Resistance
- ✓ Non-Slip Finishes Available
- ✓ Seamless Cove Base Available
- ✓ Static Dissipating

Limitations:

- ✓ Substrate minimum temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply to wet substrate

Coverages at Nominal 3/16" Thickness:

Prime Coat	175-225 Square Feet per Gallon	Rez-Stone 5014
Matrix Binder	35 Square Feet per Gallon	Rez-Stone 5014
Matrix Aggregate	1.5 Pound per Square Foot	Blended Aggregate
*Optional Grout Coat	90 Square Feet per Gallon	Rez-Stone 5017
Topcoat	90 Square Feet per Gallon	Rez-Stone 5078-C

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Application:

After proper surface preparation, apply a prime coat using Rez-Stone 5014 Primer-Binder using a heavy-duty roller. Lightly broadcast, 1 pound per 5 square feet of blended aggregate into the wet primer to help trowel ability. (Note: Matrix may be placed immediately, but do not allow primer to cure for more than 24 hours before placement of overlay). Blend proportioned amounts of Rez-Stone 5014 Part A and Part B for 3 minutes using mechanical agitation. Load proportioned matrix aggregate into a paddle or screw-type mortar mixer followed by the pre-blended 5014 Binder. Mix for 1 minute. Place mixed material onto floor using a screed box or straight edge. Power trowel the placed matrix for a smooth compacted finish. Allow matrix to cure for 8-10 hours or until tack-free. Once matrix has cured it should be lightly scraped with an ice spud or similar scraping tool and broom swept before top coating. Squeegee apply optional 5017 grout coat depending on desired finish. Roller apply Rez-Stone 5078-C 100% solids epoxy topcoat at a rate of 90 square feet per gallon for a lightly textured finish. If a non-slip finish is needed a silica or aluminum oxide aggregate may be incorporated into the topcoat.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Tensile Strength ASTM C-307	1,890 psi
Compressive Strength ASTM C-579	10,500 psi
Flexural Strength ASTM C-580	4,500 psi
Shore “D” Hardness ASTM D-2240	90
Flammability ASTM D-635	Self-extinguishing
Electrical Resistance ANSI/ESD STM7.1 - 2020	$<3.5 \times 10^{7}$ ohms
Body Voltage Generation ANSI/ESD STM97.2 - 2016	<100 volts with heel straps
Percent Elongation ASTM D-638	0.2
Water Absorption % ASTM C-413	0.2%
Abrasion Resistance ASTM D-4060	0.1 gram
Moisture Vapor Permeability ASTM E96-80	0.06 perms
Thermal Shock Resistance ASTM C-884	Passes
Static Coefficient of Friction ASTM C-1028	0.5 to 0.9 will vary with selected finish
Thermal Coefficient of Linear Expansion ASTM D-696	2.5×10^{-5} in/in/deg F
Impact Resistance MIL-D-3134F	No Indention
Bond Strength ACI Committee 403/59-43	350 psi (100% concrete failure)
Working Time	30-35 minutes @ 70°F
Cure Times:	
Initial Set for Light Traffic	16 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F

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REZ-STONE

SPECIFICATION

9510 COLOR QUARTZ EPOXY FLOOR TOPPING

Description:

Rez-Stone 9510 is a decorative, high solids epoxy based mortar floor system applied at a nominal 1/8" to 1/4" thickness. Rez-Stone 9510 decorative floor topping system is equally suited for new construction or renovation of existing concrete surfaces. Rez-Stone 9510 utilizes a special blend of coarse color quartz aggregate and high solids epoxy resins. When applied at a nominal 1/8" to 1/4" it is more impact, chemical and wear resistant than a conventional decorative floor system.

Advantages:

- ✓ Economical
- ✓ Decorative
- ✓ Excellent Chemical, Impact and Abrasion Resistance
- ✓ Non-Slip Finishes Available
- ✓ Seamless Cove Base Available

Limitations:

- ✓ Substrate minimum temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply to wet substrate

Coverage at Nominal 1/14" Thickness:

Prime Coat	220 Square Feet per Gallon	Rez-Stone 5017
Matrix Binder	25 Square Feet per Gallon	Rez-Stone 5017
Matrix Aggregate	2 Pounds per Square Foot	Coarse Color Quartz
Grout	85 Square Feet per Gallon	Rez-Stone 5017
Glaze	85 Square Feet per Gallon	Rez-Stone 5017
*Optional Topcoat	275 Square Feet per Gallon	Rez-Stone 6300

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Application:

Surface will be primed using Rez-Stone 5017 Primer Binder using a heavy duty medium nap roller. Lightly broadcast 1 pound per 5 square feet of blended aggregate into the wet primer to help trowel ability. (Note: Matrix may be placed immediately, but is easiest to apply after primer has set). Load proportioned color quartz aggregate into paddle or screw type mixer followed by pre-blended Rez-Stone 5017 Binder. Mix for 30 seconds. Place mixed material onto floor using a screened box, trowel or straight edge. Power trowel the placed material using Rez-Stone plastic non-marking blades for a compact finish. Allow matrix to cure for 8 to 10 hours or until tack free. Once matrix has cured it may be lightly scraped with an ice spud or similar scraping tool and broom swept before grouting. After cleaning, apply a tight grout coat using Rez-Stone 5017 and steel trowel. After curing of the grout coat (8 to 10 hours) apply glaze coat using Rez-Stone 5017 and a notched squeegee at the rate of 85 to 90 square feet per gallon. It may be necessary to back roll the glaze during application. For added abrasion resistance and gloss retention, apply one coat of Rez-Stone 6300.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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9510 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Tensile Strength ASTM D-638	6,000 psi
Tensile Elongation %	6-8
Compressive Strength ASTM C-579	12,000 psi
Bond Strength ACI Committee 403/59-43	350 psi (100% concrete failure)
Flammability ASTM D-635-63	Self-extinguishing
Water Absorption % ASTM D-570-63	0.10
Color	Available in all standard colors
Working Time	30-35 minutes @ 70°F
Cure Times:	
Initial Set for Light Traffic	16 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F

REZ-STONE

SPECIFICATION

9550 NOVOLAC EPOXY FLOOR TOPPING

Description:

Rez-Stone 9550 is a three component 100% solids Novolac epoxy based mortar type flooring system. Rez-Stone 9550 should be used where added protection is needed from chemical exposure and severe temperatures of up to 200°F. When applied at a nominal ¼" over concrete surfaces, Rez-Stone 9550 will show superior chemical, abrasion and wear resistance when compared to conventional epoxy floor systems.

Advantages:

- ✓ Excellent Chemical Resistance
- ✓ Excellent Heat Resistance
- ✓ Non-Slip and Conductive Finishes Available
- ✓ Seamless Cove Base Possible

Limitations:

- ✓ Substrate minimum temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply over wet substrate

Coverage at Nominal ¼" Thickness:

Prime Coat	175–225 Square Feet per Gallon	Rez-Stone 5017 or 5517
Matrix Binder	25 Square Feet per Gallon	Rez-Stone 5017 or 5517
Matrix Aggregate	2 Pounds per Square Foot	Rez-Stone 2030
Topcoat	90 Square Feet per Gallon	Rez-Stone 5579
Optional – Conductive Topcoat	90 Square Feet per Gallon	Rez-Stone 5579-C

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Application:

After proper surface preparation, the concrete surface will be primed using Rez-Stone 5017 Primer-Binder using a heavy duty medium nap roller. Lightly broadcast 1 pound per 5 square feet of blended aggregate into the wet primer to help trowel ability. (Note: Matrix may be placed immediately, but do not allow primer to cure for more than 24 hours before placement of overlay). Blend proportioned amounts of Rez-Stone 5017 Part A and Part B for 3 minutes using mechanical agitation. Load proportioned matrix aggregate into a paddle or screw type mortar mixer followed by the pre-blended 5017 Binder. Mix for 1 minute. Place mixed material onto floor using a screened box or straight edge. Power trowel the placed matrix for a smooth compacted finish. Allow matrix to cure for 8-10 hours or until tack free. Once matrix has cured it should be lightly scraped with an ice spud or similar scraping tool and broom swept before topcoating. Roller apply Rez-Stone 5078 100% solids epoxy topcoat at a rage of 90 square feet per gallon for a lightly textured finish. If a non-slip finish is needed a silica or aluminum oxide aggregate may be incorporated into the topcoat.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

9550 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Working Time	30-35 minutes @ 70°F
Cure Time: Initial Set-for-Light Traffic	16 hours @ 70°F
Cure Time: Ultimate Cure	7 days @ 70°F
Compressive Strength ASTM C-579	11,000 psi
Tensile Strength ASTM C-307	1,890 psi
Flexural Strength ASTM C-580	4,500 psi
Shore "D" Hardness ASTM D-2240	85
Water Absorption ASTM C-413	0.2%
Percent Elongation ASTM D-638	0.2
Abrasion Resistance ASTM D-4060	0.1 gram
Moisture Vapor Permeability ASTM E96-80	0.06 perms
Thermal Shock Resistance ASTM C-884	Passes
Flammability ASTM D-635	Self-extinguishing
Flame Spread ASTM E-84	Class B
Static Coefficient of Friction ASTM C-1028	0.5 to 0.9 will vary with selected finish
Thermal Coefficient of Linear Expansion ASTM D-696	2.5×10^{-5} in/in/deg F
Impact Resistance MIL-D-3134F	No Indention
Bond Strength ACI Committee 403/59-43	350 psi (100% concrete failure)
Electrical Resistivity, NFPA Bulletin #56A	Non-conductive
Color	Available in all standard colors.

CHEMICAL RESISTANCE

Rez-Stone 9500 has good resistance to most common acids, alkali, fuels, grease, salts and strong detergents. The following information is based on 7-day soak testing with 5017 binder and 5078 topcoat. The information is correct to the best of our knowledge. A test area is always recommended to determine actual chemical resistance in critical situations.

Reagent	Affect
5% Acetic Acid	Unaffected
10% Sulfuric Acid	Discolored
5% Nitric Acid	Unaffected
10% Nitric Acid	Discolored
10% Phosphoric Acid	Discolored
10% Hydrochloric Acid	Unaffected
20% Ammonium Hydroxide	Unaffected
20% Sodium Hydroxide	Unaffected
10% Tri-Sodium Phosphate	Unaffected
Brake Fluid (Auto)	Softened
Gasoline	Unaffected
Jet Fuel JP4	Unaffected
Ethyl Alcohol	Softened
MEK	Destroyed
Methyl Chloride	Destroyed
Mineral Spirits	Unaffected
Motor Oil	Unaffected
Xylene	Softened
Soda Pop	Unaffected
Beer	Unaffected
Cola Syrup	Unaffected
Mustard	Unaffected
Milk	Unaffected
Urine	Unaffected
Whiskey	Unaffected
Vegetable Oil	Unaffected
Distilled Water	Unaffected
Salt Water	Unaffected

REZ-STONE

SPECIFICATION

9594 3/16" DECORATIVE EPOXY FLOOR TOPPING SYSTEM

Description:

Rez-Stone 9594 is a nominal 3/16" seamless decorative epoxy floor system utilizing 100% solids epoxy in a trowel applied base coat and a multi-color quartz broadcast for a functional slip resistant finish. Rez-Stone 9594 is ideally suited for new or renovation construction over sound concrete, wood and quarry tile where added thickness and impact resistance are needed. Textured finish can be adjusted in commercial or industrial applications.

Advantages:

- ✓ Excellent chemical, impact, and abrasion resistance
- ✓ Seamless cove base available
- ✓ Meets USDA requirements
- ✓ Varying degrees of slip resistance
- ✓ Satin or gloss finish

Limitations:

- ✓ Substrate minimum temperature 55°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply over wet substrate

Coverage at Nominal 3/16" Thickness:

Prime Coat	200 Square Feet per Gallon	Rez-Stone 5017
Matrix Binder	50 Square Feet per Gallon	Rez-Stone 5017
Matrix Aggregate	1 Pound per Square Foot	Blended Aggregate
Broadcast Binder	50 Square Feet per Gallon	Rez-Stone 5017
Broadcast Aggregate	0.6 Pounds per Square Foot	Blended Color Quartz
Seal Coat	85 Square Feet per Gallon	Rez-Stone 5058

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Application:

After proper surface preparation, Rez-Stone primer and overlayment material is mixed just prior to use. Using a screened box or straight edge, screen into place and trowel finish. Once matrix has cured, scrape or sand to remove trowel imperfections and vacuum clean. Apply broadcast binder using a notched squeegee or trowel and medium napped roller. Broadcast color quartz into freshly rolled base coat to excess and allow to cure. Remove excess quartz and apply seal coat using a flat trowel for a light texture finish or a flat squeegee for a more aggressive finish. After curing for the seal coat a topcoat or Rez-Stone 6300 may be roller applied for added gloss retention and chemical resistance.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

9594 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED BINDER

Working Time	30-35 minutes @ 70°F
Cure Times:	
Initial Set for Light Traffic	16 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F
Compressive Strength ASTM C-579	10,000 psi
Tensile Strength ASTM C-307	1,890 psi
Flexural Strength ASTM C-580	4,400 psi
Shore "D" Hardness ASTM D-2240	85
Water Absorption ASTM C-413	0.2%
Percent Elongation ASTM D-638	0.2
Abrasion Resistance ASTM D-4060	0.1 gram
Moisture Vapor Permeability ASTM E96-80	0.06 perms
Thermal Shock Resistance ASTM C-884	Passes
Flammability ASTM D-635	Self-extinguishing
Static Coefficient of Friction ASTM C-1028	0.5 to 0.9 will vary with selected finish
Thermal Coefficient of Linear Expansion ASTM D-696	2.5×10^{-5} in/in/deg F
Impact Resistance MIL-D-3134F	No Indentation
Bond Strength ACI Committee 403/59-43	350 psi (100% concrete failure)
Electrical Resistivity, NFPA Bulletin #56A	Non-conductive
Color	Available in all standard colors

REZ-STONE

SPECIFICATION

9725 UMC-SL URETHANE MODIFIED CONCRETE SLURRY / BROADCAST

Description:

Rez-Stone 9725 UMC-SL is a four component, water based, urethane cement slurry floor system, typically applied up to a 1/4 inch in thickness. Rez-Stone 9725 UMC-SL is suitable for food and beverage facilities where slip resistance, clean ability and high thermal shock properties are necessary. Rez-Stone 9725 UMC-SL is essentially odorless and non-porous making it ideal for food and beverage applications where chemical and abrasion resistance are also needed.

Advantages:

- ✓ Withstands thermal shock and cycling
- ✓ Water based low odor
- ✓ Excellent chemical, impact and abrasion resistance
- ✓ Non-slip finishes available
- ✓ Seamless cove base available
- ✓ Can be applied over green concrete
- ✓ USDA compliant materials
- ✓ Wide range of temperature service -40°F up to 240°F

Limitations:

- ✓ Substrate minimum temperature 50°F
- ✓ Expansion Joints must be re-cut through topping
- ✓ Protect from freezing
- ✓ Color is not light stable without appropriate topcoat

Coverage at Nominal ¼" Thickness:

Prime Coat	Not necessary in most applications	
Matrix Binder	14 Square Feet per Gallon	Rez-Stone 6600
Slurry Aggregate Blend	2 Pounds per Square Foot	UMC Blended Aggregate
Broadcast Aggregate	1 Pound per Square Foot	Dry Silica
Topcoat	Optional: 90-125 Square Feet per Gallon	Rez-Stone 6500

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods. Irregularities may be prefilled with Rez-Stone UMC or another acceptable mortar. All edges, terminations, control and expansion joints must be addressed using key cuts as termination points. UMC should not be featheredged.

Application:

After proper mixing, immediately pour the material onto the floor. Use a pin rake set at 1/4 inch to spread the material, then immediately back roll using a spike roller to level and de air. Broadcast required silica immediately to refusal. Care must be taken to work material in such a way to minimize cold joints and lap marks. Once slurry has cured to the point it will support foot traffic it may be swept clean of excessive aggregates and top coated if necessary.

Safety Precautions:

Prolonged or repeated exposure to urethane materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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9725UMC-SL TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Working Time	15 minutes @ 70°F
Cure Time: Initial Set for Light Traffic	6-8 hours @ 70°F
Vehicle Traffic	24 hours @ 70°F
Compressive Strength ASTM C-579	6,900 psi
Tensile Strength ASTM C-307	1,000 psi
Flexural Strength ASTM C-580	2,150 psi
Shore "D" Hardness ASTM D-2240	85
Water Absorption ASTM C-413	0.2%
Percent Elongation ASTM D-638	0.1
Abrasion Resistance ASTM D-4060	0.05 – 0.075 gram
Moisture Vapor Permeability ASTM E96-80	0.06 perms
Thermal Shock Resistance ASTM C-884	Passes
Flammability ASTM D-635	Self-extinguishing
Flame Spread ASTM E-84	Class B
Static Coefficient of Friction ASTM C-1028	0.5 to 0.9 will vary with selected finish
Thermal Coefficient of Linear Expansion ASTM D-696	0.88×10^{-5} in/in/deg F
Impact Resistance MIL-D-3134F	No Indention
Bond Strength ACI Committee 403/59-43	350 psi (100% concrete failure)
Electrical Resistivity, NFPA Bulletin #56A	Non-conductive
Color	Standard Colors, red, grey, neutral

CHEMICAL RESISTANCE

Rez-Stone 9725 UMC-SL has good resistance to most common acids, alkali, fuels, grease, salts and strong detergents. The following information is based on 7-day soak testing. The information is correct to the best of our knowledge. A test area is always recommended to determine actual chemical resistance in critical situations.

Reagent	Affect
5% Acetic Acid	Excellent
10% Sulfuric Acid	Excellent
5% Nitric Acid	Excellent
10% Nitric Acid	Excellent
10% Phosphoric Acid	Excellent
10% Hydrochloric Acid	Excellent
20% Ammonium Hydroxide	Excellent
20% Sodium Hydroxide	Excellent
10% Tri-Sodium Phosphate	Excellent
Brake Fluid (Auto)	Softened
Gasoline	Excellent
Jet Fuel JP4	Excellent
Ethyl Alcohol	Softened
MEK	Destroyed
Methyl Chloride	Destroyed
Mineral Spirits	Excellent
Motor Oil	Excellent
Xylene	Excellent
Soda Pop	Excellent
Beer	Excellent
Cola Syrup	Excellent
Mustard	Excellent
Milk	Excellent
Urine	Excellent
Whiskey	Excellent
Vegetable Oil	Excellent
Distilled Water	Excellent
Salt Water	Excellent

REZ-STONE

TECHNICAL DATA

5001 LOW VISCOSITY EPOXY ADHESIVE

Description:

Rez-Stone 5001 is a two component 100% solids low viscosity, epoxy adhesive. Primarily for bonding fresh plastic concrete to properly prepared hardened concrete. Rez-Stone 5001 is a moisture insensitive epoxy adhesive with a low viscosity and long pot life for ease of workability and good adhesion. ASTM C-881 compliant for Type I, II, III, IV, V, VI, and VII. Grade 1, Class B&C.

Advantages:

- ✓ Moisture Insensitive
- ✓ Bonds to dry or damp surfaces
- ✓ Spray able
- ✓ Excellent Adhesion to Concrete and Most Structural Materials

Limitations:

- ✓ Minimum application temperature 50°F
- ✓ Substrate must be clean and sound
- ✓ Material is vapor barrier after cure

Packaging:

Unit Size: 3 gallon units, 3 gallon pre-measured kits, 15 gallon units and 150 gallon units. Coverage will vary depending on the porosity of the surface, between 50 and 100 square feet per gallon.

Mixing: 2 parts-A to 1 part-B

Mix Ratio: Pre-measured. Pour entire contents of Part B into Part A and then by mechanical agitation until completely blended. Work the sides and bottom of the container to insure a uniform blend. Mix only the amount of material that can be used within its application pot life (60-90 minutes).

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods. Surface may be dry or damp but free of standing water before epoxy application.

Application:

Rez-Stone 5001 can be applied over properly prepared substrates by use of airless spray, roller or squeegee. Apply at a rate of approximately 50 to 100 square feet per gallon. Avoid excess pudding in low areas, this may bleed through thin toppings. Concrete toppings can be placed immediately or while Rez-Stone 5001 is still tacky, usually within 4 to 6 hours. DO NOT ALLOW REZ-STONE 5001 TO DRY COMPLETELY before placing topping. If Rez-Stone 5001 primer loses its tackiness, remove any surface contaminants, then re-coat with Rez-Stone 5001 before applying topping.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Blended Viscosity	1,490 cps
Pot Life	60-90 minutes
Tack-free Time	8 hours
Color	Clear, amber
Solids Contents	100% by weight 100%by volume
Shelf Life	Greater than 1 yr. in original unopened package
Storage	Dry, between 50°F and 90°F
Tensile Strength ASTM D-638	8,500 psi
Compressive Strength ASTM C-579	11,100 psi
Compressive Modulus of Elasticity ASTM D-638	280,000 psi
Flexural Strength ASTM D-790	13,600 psi
Tensile Elongation	8.3%
Bond Strength, 100% concrete failure	Greater than 400 psi
Slant Shear Bond Strength ASTM C-882, 14 day cure	2,490 psi

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REZ-STONE

TECHNICAL DATA

5007 WATER BASED EPOXY BONDING AGENT

Description:

Rez-Stone 5007 is a two component 100% solids water reducible epoxy bonding agent. Primarily for bonding fresh plastic concrete to properly prepared hardened concrete.

Advantages:

- ✓ Moisture Insensitive
- ✓ Water Reducible and Cleanable
- ✓ Sprayable
- ✓ Excellent Adhesion to Concrete and Most Structural Materials

Limitations:

- ✓ Minimum application temperature 50°F
- ✓ Substrate must be clean and sound
- ✓ Material is vapor barrier after cure

Coverage at Normal ¼" Thickness:

Prime Coat	175 – 225 Square Feet per Gallon	Rez-Stone 5014 or 5017
Matrix Binder	25 Square Feet per Gallon	Rez-Stone 5014 or 5017
Matrix Aggregate	2 Pounds per Square Foot	Blended Aggregate
Chemical Resistant Topcoat	90 Square Feet per Gallon	Rez-Stone 5078 or 5079

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Application:

After proper surface preparation, the concrete surface will be primed using Rez-Stone 5017 Primer Binder using a heavy duty medium nap roller. Lightly broadcast 1 pound per 5 square feet of blended aggregate into the wet primer to help trowel ability. (Note: Matrix may be placed immediately, but do not allow primer to cure for more than 24 hours before placement of overlay). Blend proportioned amounts of Rez-Stone 5017 Part A and Part B for 3 minutes using mechanical agitation. Load proportioned matrix aggregate into a paddle or screw type mortar mixer followed by the pre-blended 5017 Binder. Mix for 1 minute. Place mixed material onto floor using a screened box or straight edge. Power trowel the placed matrix for a smooth compacted finish. Allow matrix to cure for 8-10 hours or until tack free. Once matrix has cured it should be lightly scraped with an ice spud or similar scraping tool and broom swept before topcoating. Roller apply Rez-Stone 5078 100% solids epoxy topcoat at a rage of 90 square feet per gallon for a lightly textured finish. If a non-slip finish is needed a silica or aluminum oxide aggregate may be incorporated into the topcoat.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

5007 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Working Time	30-35 minutes @ 70°F
Cure Time: Initial Set for Light Traffic	16 hours @ 70°F
Cure Time: Ultimate Cure	7 days @ 70°F
Compressive Strength ASTM C-579	11,000 psi
Tensile Strength ASTM C-307	1,890 psi
Flexural Strength ASTM C-580	4,500 psi
Shore "D" Hardness ASTM D-2240	85
Water Absorption ASTM C-413	0.2%
Percent Elongation ASTM D-638	0.2
Abrasion Resistance ASTM D-4060	0.1 gram
Moisture Vapor Permeability ASTM E96-80	0.06 perms
Thermal Shock Resistance ASTM C-884	Passes
Flammability ASTM D-635	Self-extinguishing
Flame Spread ASTM E-84	Class B
Static Coefficient of Friction ASTM C-1028	0.5 to 0.9 will vary with selected finish
Thermal Coefficient of Linear Expansion ASTM D-696	2.5×10^{-5} in/in/deg F
Impact Resistance MIL-D-3134F	No Indention
Bond Strength ACI Committee 403/59-43	350 psi (100% concrete failure)
Electrical Resistivity, NFPA Bulletin #56A	Non-conductive
Color	Available in all standard colors.

CHEMICAL RESISTANCE

Rez-Stone 9500 has good resistance to most common acids, alkali, fuels, grease, salts and strong detergents. The following information is based on 7-day soak testing with 5017 binder and 5078 topcoat. The information is correct to the best of our knowledge. A test area is always recommended to determine actual chemical resistance in critical situations.

Reagent	Affect
5% Acetic Acid	Unaffected
10% Sulfuric Acid	Discolored
5% Nitric Acid	Unaffected
10% Nitric Acid	Discolored
10% Phosphoric Acid	Discolored
10% Hydrochloric Acid	Unaffected
20% Ammonium Hydroxide	Unaffected
20% Sodium Hydroxide	Unaffected
10% Tri-Sodium Phosphate	Unaffected
Brake Fluid (Auto)	Softened
Gasoline	Unaffected
Jet Fuel JP4	Unaffected
Ethyl Alcohol	Softened
MEK	Destroyed
Methyl Chloride	Destroyed
Mineral Spirits	Unaffected
Motor Oil	Unaffected
Xylene	Softened
Soda Pop	Unaffected
Beer	Unaffected
Cola Syrup	Unaffected
Mustard	Unaffected
Milk	Unaffected
Urine	Unaffected
Whiskey	Unaffected
Vegetable Oil	Unaffected
Distilled Water	Unaffected
Salt Water	Unaffected

REZ-STONE

TECHNICAL DATA

5014 100% STRUCTURAL EPOXY PRIMER-BINDER

Description:

Rez-Stone 5014 is a two component 100% solids structural epoxy used as a primer and binder for Rez-Stone overlayment systems. Rez-Stone 5014 works well as a primer and binder in all Rez-Stone 9400 and 9500 series of floor systems. Rez-Stone 5014 exhibits excellent adhesion to properly prepared concrete substrates and good overall mechanical properties when cured.

Advantages:

- ✓ Low viscosity
- ✓ Cost effective
- ✓ No V.O.C.
- ✓ Fast cure

Limitations:

- ✓ Minimum substrate temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply over wet surface

Packaging:

Unit Size: 3 gallon units, 15 gallon units, 150 gallon units.

Coverage will vary with use.

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dust, laitance, grease, wax, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Mixing:

Mix Ratio: 2 Parts A (resin) – 1 Part B (curing agent) by volume. Temperature of material must be between 60°F and 90°F at time of mixing for best application properties. Premix Part A (resin) component before blending with cure. Mix two parts by volume A with one part by volume part B for three minutes with low speed drill and paddle. Mix only that amount of material that can be used within its applicable pot life.

Application:

Application will vary with use. To use as a primer over properly prepared surfaces, apply using a brush, roller, squeegee or sprayer. As a binder, use as recommended by appropriate Rez-Stone specification sheet.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

5014 TYPICAL PROPERTIES AND SPECIFICATIONS

Blended Viscosity	460 cps @ 70°F
Pot Life	20-30 Minutes @ 70°F
Tack free, Recoat Time	6 hours @ 70°F
Color	Clear-Also available in all standard colors
Solids, Mixed	% by weight 100± 2 % by volume 100± 2
Shelf Life	Greater than yr. in original unopened package
Storage	Dry, between 50°F and 90°F
Tensile Strength ASTM D-638	2,600 psi
Compressive Strength ASTM C-579	8,500 psi
Flexural Strength ASTM D-790	4,000 psi
Tensile Elongation	6%
Bond Strength	Greater than concrete

REZ-STONE

TECHNICAL DATA

5017 100% SOLIDS EPOXY PRIMER-BINDER

Description:

Rez-Stone 5017 is a two component 100% solids epoxy. When used as a primer, Rez-Stone 5017 exhibits excellent adhesion properties to properly prepared substrates. When used as a binder, Rez-Stone 5017's low viscosity produces easy to work with floor systems even at cool temperatures.

Advantages:

- ✓ Low viscosity
- ✓ Excellent blush resistance
- ✓ Non-flammable 100% solids
- ✓ 0 g/l V.O.C.

Limitations:

- ✓ Minimum substrate temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply over wet surface

Packaging:

Unit Size: 3 gallon units, 15 gallon units, 150 gallon units.

Coverage will vary with use.

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dust, laitance, grease, wax, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Mixing:

Mix Ratio: 2 Parts A (resin) – 1 Part B (curing agent) by volume. Temperature of material must be between 60°F and 90°F at time of mixing for best application properties. Premix Part A (resin) component before blending with cure. Mix two parts by volume A with one part by volume part B for three minutes with low speed drill and paddle. Mix only that amount of material that can be used within its applicable pot life.

Application:

Application will vary with use. To use as a primer over properly prepared surfaces, apply using a brush, roller, squeegee or sprayer. As a binder, use as recommended by appropriate Rez-Stone specification sheet.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

5017 TYPICAL PROPERTIES AND SPECIFICATIONS

Blended Viscosity	550 cps @ 70°F
Pot Life	20-25 Minutes @ 70°F
Tack free, Recoat Time	6 hours @ 70°F
Color	Clear-Also available in all standard colors
Solids, Mixed	% by weight 100± 2 % by volume 100± 2
Shelf Life	Greater than yr. in original unopened package
Storage	Dry, between 50°F and 90°F
Tensile Strength ASTM D-638	2,100 psi
Compressive Strength ASTM C-579	10,000 psi
Flexural Strength ASTM D-790	4,800 psi
Tensile Elongation	3%
Bond Strength	Greater than concrete

Chemical Resistance

Reagent	***% Weight Change Over Time***	
	30 Days	***28 Days***
Deionized Water	0.34	1.13
Ethanol	6.58	Destroyed
Toluene	1.38	19.30
xylene	0.08	1.58
Butyl Cellsovle	4.22	13.98
MEK	Destroyed	Destroyed
10% Lactic Acid	0.51	1.79
10% Acetic Acid	0.92	2.95
70% Sulfuric Acid	0.05	0.19
98% Sulfuric Acid	Destroyed	Destroyed
50% Sodium Hydroxide	-0.05	-0.01
10% Sodium Hypochlorite	0.14	0.83
1,1,1 Trichloroethane	0.61	5.85

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REZ-STONE

TECHNICAL DATA

5042 100% SOLIDS SEMI-RIGID EPOXY

Description:

Rez-Stone 5042 is a non-shrinking 100% solids semi-rigid epoxy. For use in control and expansion joints that are subject to heavy industrial use in factories and warehouse areas. Rez-Stone 5042 accommodates normal movement while preventing deterioration of joint nosing, from forklifts, dolly wheel traffic and vibration. Rez-Stone 5042 can also be used as effective membrane between moving substrates and nonflexible epoxy systems on walls and floors.

Advantages:

- ✓ Excellent adhesion without priming
- ✓ Non-flammable 100% solids epoxy
- ✓ Pourable, self-leveling or non-sag
- ✓ Chemical resistant to most industrial chemicals
- ✓ Outstanding durability to compressive loads

Limitations:

- ✓ Minimum substrate temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Surface must be free of standing water, clean and free from contaminates

Packaging:

Unit Size: 2 quart units or 2 gallon units. Joint coverage is as follows:

¼" wide X ¼" deep	308 lineal feet per gallon
½" wide X ½" deep	77 lineal feet per gallon
1" wide X ½" deep	38 lineal feet per gallon

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dust, laitance, foreign matter, or other bonding inhibiting substances by shot blasting, routing, chipping or rotary brush. Where necessary a backing rod may be used. For a clean finished edge 2" masking tape is recommended.

Mixing:

Mix Ratio: 1 Parts A (resin) – 1 Part B (curing agent) by volume. Temperature of material must be between 60°F and 90°F at time of mixing for best application properties. Stir Part A (resin) component before blending. Mix one part by volume A with one part by volume part B for three minutes with low speed drill and paddle. Mix only that amount of material that can be used within its applicable pot life.

Application:

After proper mixing, the material can be poured directly into the prepared joint. If a backing is not used a second application may be required. With narrow joints, the mixed material can be placed into a caulk gun and then applied into the prepared joint.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

5042 TYPICAL PROPERTIES AND SPECIFICATIONS

Blended Viscosity	5,000 cps @ 70°F
Pot Life	35-45 Minutes @ 70°F
Tack free	8 hours @ 70°F
Color	Clear-Also available in all standard colors
Shelf Life	Greater than 1 yr. in original unopened package
Tensile Strength ASTM D-638	1,500 psi
Compressive Strength ASTM C-695	5,300 psi
Tensile Elongation	56%
Tensile Modulus	17,150 psi
Bond Strength	Greater than concrete

REZ-STONE

TECHNICAL DATA

5058 100% SOLIDS EPOXY COATING

Description:

Rez-Stone 5058 is a 100% solids epoxy coating for high indoor traffic areas, such as pedestrian walkways or factory aisles, where high gloss, stain resistance and abrasion resistance are required. Rez-Stone 5058 is ideal for a finish coat over Rez-Stone self-leveling and multi-coat epoxy sealer systems, when a high gloss flat line finish is desired. 5058 has very little odor and very good resistance to most common industrial cleaners and fluids.

Advantages:

- ✓ Outstanding amine blush resistance
- ✓ Non-flammable 100% solids
- ✓ High gloss tile like finish
- ✓ Sprayable
- ✓ Moisture insensitive

Limitations:

- ✓ Minimum substrate temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply over glistening wet surface

Packaging:

Unit Size: 3 quart units, 1-1/2 gallon units, 15 gallon units, 150 gallon units.

Coverage can vary from 250 square feet per gallon to 50 square feet per gallon or less depending on substrate and finish desired.

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dust, laitance, grease, wax, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Mixing:

Mix Ratio: 2 Parts A (resin) – 1 Part B (curing agent) by volume. Temperature of material must be between 60°F and 90°F at time of mixing for best application properties. Stir the part A (resin) component before blending. Mix two parts by volume A with one part by volume part B for three minutes with low speed drill and paddle. Mix only that amount of material that can be used within its applicable pot life.

Application:

Rez-Stone 5058 can be applied directly over properly prepared concrete or over Rez-Stone self-leveling and sealer systems by using a brush, roller, squeegee or sprayer. If two coats are needed, a second coat can be applied as soon as the first coat is tack free. Thickness per coat will vary depending on application technique and desired finish. Rez-Stone 5058 may be applied as thin as 5 mils or as much as 1/8" in one application.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

5058 TYPICAL PROPERTIES AND SPECIFICATIONS

Blended Viscosity	1,750 cps @ 70°F
Pot Life	20-25 Minutes @ 70°F
Tack free, Recoat Time	6 hours @ 70°F
Color	Clear-Also available in all standard colors
Solids, Mixed	% by weight 100± 2 % by volume 100± 2
Shelf Life	Greater than 1 yr. in original unopened package
Storage	Dry, between 50°F and 90°F
Tensile Strength ASTM D-638	2,400 psi
Compressive Strength ASTM C-579	11,200 psi
Flexural Strength ASTM D-790	4,300 psi
Abrasion Resistance ASTM D-4060	Loss 0.075 gm loss (CS-17 wheel, 1,000gm load, 1,000 cycles)
Tensile Elongation	10%
Bond Strength	Greater than concrete

Chemical Resistance

Rez-Stone 5058 has good resistance to most common acids, alkali, fuels, grease, salts and strong detergents. The following information is based on 24 hour soak testing at 20 mils. The information is correct to the best of our knowledge. A test area is always recommended to determine actual chemical resistance in critical situations.

Reagent	***Affect***
5% Acetic Acid	Unaffected
10% Sulfuric Acid	Discolored
5% Nitric Acid	Unaffected
10% Phosphoric Acid	Discolored
20% Ammonium Hydroxide	Unaffected
20% Sodium Phosphate	Unaffected
Tri-Sodium Phosphate	Unaffected
Brake Fluid (Auto)	Slight Softening
Gasoline	Unaffected
A-1 Jet Fuel	Unaffected
MEK	Destroyed
Methyl Chloride	Destroyed
Mineral Spirits	Unaffected
Xylene	Slight Softening
Beer	Unaffected
Mustard	Unaffected
Milk	Unaffected
Urine	Unaffected
Whiskey	Unaffected
Vegetable Oil	Unaffected

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REZ-STONE

TECHNICAL DATA

5078 100% SOLIDS HI-BUILD EPOXY COATING

Description:

Rez-Stone 5078 is a 100% solids hi-build epoxy coating for high indoor traffic areas, such as pedestrian walkways or factory aisles, where a semi-gloss or orange peel finish is needed. Rez-Stone 5078 is ideal for a finish coating over Rez-Stone epoxy overlays and coatings systems where stain and abrasion resistance are required. Rez-Stone 5078 has very little odor and has excellent resistance to most common industrial cleaners and fluids.

Advantages:

- ✓ Excellent amine blush resistance
- ✓ Non-flammable 100% solids
- ✓ Tile like finish
- ✓ Moisture insensitive

Limitations:

- ✓ Minimum substrate temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply over wet surfaces

Packaging:

Unit Size: 3 quart units, 1½ gallon units, 15 gallon units, 150 gallon units.

Coverage will vary from 200 square feet per gallon to 75 square feet per gallon depending on substrate and finish desired.

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, wax, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Mixing:

Mix Ratio: 2 Parts A (resin) to 1 Part B (curing agent) by volume. Temperature of material must be between 60°F and 90°F at time of mixing for best application properties. Stir the Part A (resin) component before blending with curing agent. Mix two parts by volume Part A with one part by volume Part B for three minutes with low speed drill and paddle. Mix only that amount of material that can be used within its applicable pot life.

Application:

Rez-Stone 5078 can be applied directly over properly prepared concrete or over Rez-Stone epoxy overlayments and sealer systems by using a brush, roller, squeegee or sprayer. Easiest application can be achieved by spreading with a notched squeegee and back rolling on spiked shoes. If two coats are needed, a second coat can be applied as soon as the first coat is dry enough to walk on. Thickness per coat can vary depending on application technique and desired finish. Thinner applications leave a tight orange peel and thicker applications leave a heavier orange peel.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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5078 TYPICAL PROPERTIES AND SPECIFICATIONS

Blended Viscosity	3,400 cps @ 70°F
Pot Life	20-25 Minutes @ 70°F
Tack Free, Recoat Time	6 Hour @ 70°F
Cured for Foot Traffic	12 Hours @ 70°F
Cured for Forklift Traffic	24 Hours @ 70°F
Color	Clear – Also available in all standard colors
Solids, Mixed	% by Weight 100± 2 % by Volume 100± 2
Shelf Life	Greater than one year in original unopened package
Storage	Dry, between 50°F and 90°F
Tensile Strength ASTM D-638	2,400 psi
Compressive Strength ASTM D-695	11,200 psi
Flexural Strength ASTM D-790	4,300 psi
Tensile Elongation	5%
Bond Strength	Greater than concrete

CHEMICAL RESISTANCE

Rez-Stone 5078 has good resistance to most common acids, alkali, fuels, grease, salts and strong detergents. The following information is based on 24 hour soak testing at 20 mils. The information is correct to the best of our knowledge. A test area is always recommended to determine actual chemical resistance in critical situations.

Reagent	Affect
5% Acetic Acid	Unaffected
10% Sulfuric Acid	Discolored
5% Nitric Acid	Unaffected
10% Phosphoric Acid	Discolored
20% Ammonium Hydroxide	Unaffected
20% Sodium Hydroxide	Unaffected
Tri-Sodium Phosphate	Unaffected
Brake Fluid (Auto)	Slight Softening
Gasoline	Unaffected
A-1 Jet Fuel	Unaffected
MEK	Destroyed
Methyl Chloride	Destroyed
Mineral Spirits	Unaffected
Xylene	Slight Softening
Hydraulic Oil	Unaffected
Mustard	Unaffected
Milk	Unaffected
Urine	Unaffected
Whiskey	Unaffected
Vegetable Oil	Unaffected

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REZ-STONE

TECHNICAL DATA

5078-C 100% SOLIDS STATIC CONTROL HI-BUILD EPOXY COATING

Description:

Rez-Stone 5078-C is a 100% solids hi-build epoxy coating for high indoor traffic areas, such as pedestrian walkways or factory aisles, where electrostatic discharging properties are needed. Rez-Stone 5078-C is ideal for a finish coating over Rez-Stone epoxy overlays and coatings systems where stain and abrasion resistance are required along with electrical conductivity. Rez-Stone 5078-C has very little odor and has excellent resistance to most common industrial cleaners and fluids.

Advantages:

- ✓ Excellent conductivity
- ✓ Non-flammable 100% solids
- ✓ Tile like finish
- ✓ Moisture insensitive

Limitations:

- ✓ Minimum substrate temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply over wet surfaces

Packaging:

Unit Size: 3 quart units, 1½ gallon units, 15 gallon units, 150 gallon units.

Coverage: 95 square feet per gallon.

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, wax, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Mixing:

Mix Ratio: 2 Parts A (resin) to 1 Part B (curing agent) by volume. Temperature of material must be between 60°F and 90°F at time of mixing for best application properties. Stir the Part A (resin) component before blending with curing agent. Mix two parts by volume Part A with one part by volume Part B for three minutes with low speed drill and paddle. Mix only that amount of material that can be used within its applicable pot life.

Application:

Rez-Stone 5078-C can be applied directly over properly prepared and primed concrete or over Rez-Stone epoxy overlayments and sealer systems by using a brush, roller, squeegee or sprayer. Easiest application can be achieved by spreading with a notched squeegee and back rolling on spiked shoes. If two coats are needed, a second coat can be applied as soon as the first coat is dry enough to walk on. Thickness per coat is 95 square feet per gallon. MINIMUM 16MIL DFT REQUIRED TO MAINTAIN STATIC DISSIPATING PROPERTIES

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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5078-C TYPICAL PROPERTIES AND SPECIFICATIONS

Blended Viscosity	6,700 cps @ 70°F
Pot Life	20-25 Minutes @ 70°F
Tack Free, Recoat Time	6 Hour @ 70°F
Cured for Foot Traffic	12 Hours @ 70°F
Cured for Forklift Traffic	24 Hours @ 70°F
Color	Clear – Also available in all standard colors
Solids, Mixed	% by Weight 100± 2 % by Volume 100± 2
Shelf Life	Greater than one year in original unopened package
Storage	Dry, between 50°F and 90°F
Tensile Strength ASTM D-638	2,400 psi
Compressive Strength ASTM D-695	11,200 psi
Flexural Strength ASTM D-790	4,300 psi
Tensile Elongation	10%
Bond Strength	Greater than concrete
Electrical Resistance ANSI/ESD STM7.1 - 2020	$<3.5 \times 10^7$ ohms
Body Voltage Generation ANSI/ESD STM97.2 - 2016	<100 volts with heel straps

CHEMICAL RESISTANCE

Rez-Stone 5078-C has good resistance to most common acids, alkali, fuels, grease, salts and strong detergents. The following information is based on 24 hour soak testing at 20 mils. The information is correct to the best of our knowledge. A test area is always recommended to determine actual chemical resistance in critical situations.

Reagent	Affect
5% Acetic Acid	Unaffected
10% Sulfuric Acid	Discolored
5% Nitric Acid	Unaffected
10% Phosphoric Acid	Discolored
20% Ammonium Hydroxide	Unaffected
20% Sodium Hydroxide	Unaffected
Tri-Sodium Phosphate	Unaffected
Brake Fluid (Auto)	Slight Softening
Gasoline	Unaffected
A-1 Jet Fuel	Unaffected
MEK	Destroyed
Methyl Chloride	Destroyed
Mineral Spirits	Unaffected
Xylene	Slight Softening
Beer	Unaffected
Mustard	Unaffected
Milk	Unaffected
Urine	Unaffected
Whiskey	Unaffected
Vegetable Oil	Unaffected

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REZ-STONE

TECHNICAL DATA

5079 CHEMICAL RESISTANT EPOXY COATING

Description:

Rez-Stone 5079 is a 100% solids hi- build epoxy coating used for indoor traffic areas, where a moderate degree of solvent and acid resistance must be maintained. Rez-Stone 5079 is well suited as a finish coat over various Rez-Stone epoxy overlays and coating systems, where added chemical, stain, and abrasion resistance are necessary. Rez-Stone 5079 has very little odor and may be applied during regular production hours.

Advantages:

- ✓ Excellent amine blush resistance
- ✓ Non-flammable 100% solids
- ✓ Tile like finish
- ✓ Good solvent and acid resistance

Limitations:

- ✓ Minimum substrate temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply over glistening wet surface

Packaging:

Unit Size: 1-gallon units, 4-gallon units, 20-gallon units, and 200-gallon units

Coverage can vary from 200 square feet per gallon to 75 square feet per gallon depending on substrate and finish desired.

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dust, laitance, grease, wax, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Mixing:

Mix Ratio: 3 Parts A (resin) – 1 Part B (curing agent) by volume. Temperature of material must be between 60°F and 90°F at time of mixing for best application properties. Stir the part A (resin) component before blending. Mix three parts by volume A with one part by volume part B for three minutes with low speed drill and paddle. Mix only that amount of material that can be used within its applicable pot life.

Application:

Rez-Stone 5079 can be applied directly over properly prepared concrete or over Rez-Stone Epoxy Overlayments and sealer systems by using a brush, roller, squeegee, or sprayer. Easiest application can be achieved by spreading with a notched squeegee and back rolling on spiked shoes. If two coats are needed, a second coat can be applied as soon as the first coat is dry enough to walk on. Thickness per coat can vary depending on application technique and desired finish. Thinner applications leave a tight orange peel and thicker applications leave a heavier orange peel. Fine graded aggregate may be added for varying degrees of non-slip.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

5079 TYPICAL PROPERTIES AND SPECIFICATIONS

Blended Viscosity	4,600 cps @ 70°F
Pot Life	20-25 minutes @ 70°F
Tack free, Recoat Time	6 hours @ 70°F
Color	Clear-Also available in all standard colors
Solids, Mixed	% by weight 100± 2 % by Volume 100± 2
Shelf Life	Greater than one year in original unopened package
Storage	Dry, between 50°F and 90°F
Tensile Strength ASTM D-638	3,000 psi
Compressive Strength ASTM C-579	>10,000 psi
Flexural Strength ASTM D-790	4,500 psi
Tensile Elongation	4%
Bond Strength	Greater than concrete

Chemical Resistance

Rez-Stone 5079 has good resistance to most common acids, alkali, fuels, grease, salts and strong detergents. The following information is based on 24 hour soak testing at 20 mils. The information is correct to the best of our knowledge. A test area is always recommended to determine actual chemical resistance in critical situations.

Reagent	***Affect***
5% Acetic Acid	Unaffected
10% Sulfuric Acid	Unaffected
5% Nitric Acid	Unaffected
10% Phosphoric Acid	Unaffected
20% Ammonium Hydroxide	Unaffected
20% Sodium Hydroxide	Unaffected
Tri-Sodium Phosphate	Unaffected
Brake Fluid (Auto)	Unaffected
Gasoline	Unaffected
A-1 Jet Fuel	Unaffected
MEK	Slight Softening
Methyl Chloride	Destroyed
Mineral Spirits	Unaffected
Xylene	Unaffected
Beer	Unaffected
Mustard	Unaffected
Milk	Unaffected
Urine	Unaffected
Whiskey	Unaffected
Vegetable Oil	Unaffected

REZ-STONE

TECHNICAL DATA

5365 PIGMENTED HI-SLIDS POLYAMIDE COATING

Description:

Rez-Stone 5365 Polyamide Coating is a two component epoxy polyamide floor sealer designed to protect and beautify concrete, wood, metal, and brick floors. It provides a durable, cleanable, light reflective floor with excellent adhesion and protective qualities. It withstands mild acids, alkali, and aliphatic solvents. Use as a base color coat in the Rez-Stone color system. For a slip resistant surface, broadcast suitable grit onto the freshly applied surface. Rez-Stone 5365 also can be used as a semi-gloss topcoat in the intermediate Color System.

Advantages:

- ✓ Fast drying and easy to apply
- ✓ Improves the appearance and performance of any substrate
- ✓ Provides cleanable, durable, light reflective floor
- ✓ Meets V.O.C. requirements

Limitations:

- ✓ Minimum substrate temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Surface must be free of standing water, clean and free from contaminates

Packaging:

Unit Size: 4 gallon in 4/1 gallon box, 2 gallons Part A; 8.5lbs. (approx.) each gallon, 2 gallon Part B, 10.5 lbs. (approx.) each gallon

Surface Preparation:

Apply to clean, sound substrate. Dusty, soft or greasy concrete will be difficult to coat and may cause delamination. It is often helpful to get a good rough profile on the concrete to assure a good mechanical bond. Shot blasting with light shot (brush blast), wire brushing or acid etching can achieve the desired effect. Surfaces should be washed, degreased and vacuumed. When using Rez-Stone 5365 over existing coatings, test for compatibility by applying a test area. Check for any lifting, softening or peeling of the existing coating. Strip the old coating if there is any doubt about compatibility.

Mixing:

Mix Ratio: Part A and Part B should be poured into a clean mixing container and mixed until streak free. If the temperature is below 50°F, allow the product to stand for 30-45 minutes before applying.

Application:

Apply with a medium nap (3/8") roller, brush or sprayer. If necessary, reduce with Xylol. For a skid proof surface, immediately broadcast suitable grit onto the wet coating. Skid proof within 15 minutes of application.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

5365 TYPICAL PROPERTIES AND SPECIFICATIONS

Type	Two-part epoxy
Solids by weight	64% ± 2 depending on color
Coverage	250-350 sq. ft. per gallon depending on porosity and type of substrate
Surface Temperature	40°F-90°F at time of application
Pot Life	6-10 hours
Film Thickness	Recommended 3 mils dry
Cure Schedule	Substrate temperature 70°F
Tack Free	2 hours
Re-coat	4-6 hours
Light Traffic	16-24 hours
Full Cure	7-10 days (At temperature below 60° allow extra time for curing)
Mix Ratio	1 to 1 by volume
Finish	Semi-Gloss
Colors	Red, blue, light gray, dark gray, green, brown, white and yellow
Shelf Life	One year

REZ-STONE

TECHNICAL DATA

5517 100% NOVOLAC SOLIDS EPOXY PRIMER-BINDER

Description:

Rez-Stone 5517 is a 100% Solids Epoxy Novolac and when used as a primer, exhibits excellent adhesion to properly prepared substrates. When used as a binder, Rez-Stone 5517's low viscosity produces easy to work with floor systems even at low temperatures.

Advantages:

- ✓ Outstanding chemical resistance
- ✓ Non-flammable 100% solids
- ✓ High gloss tile like finish
- ✓ Sprayable

Limitations:

- ✓ Minimum substrate temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply over glistening wet surface

Packaging:

Unit Size: 2-1/2 quart units, 2-1/2 gallon units, 25 gallon units, 250 gallon units.

Coverage can vary from 250 square feet per gallon to 50 square feet per gallon or less depending on substrate and finish desired.

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dust, laitance, grease, wax, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Mixing:

Mix Ratio: 1-1/2 Parts A (resin) – 1 Part B (curing agent) by volume. Temperature of material must be between 60°F and 90°F at time of mixing for best application properties. Stir the part A (resin) component before blending. Mix one and one half parts by volume A with one part by volume part B for three minutes with low speed drill and paddle. Mix only that amount of material that can be used within its applicable pot life.

Application:

Application will vary with use. As a primer Rez-Stone 5517 can be applied directly over properly prepared substrates. As a binder use as directed for Rez-Stone coating, self leveling and trowel down systems.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

5517 TYPICAL PROPERTIES AND SPECIFICATIONS

Blended Viscosity	900 cps @ 70°F
Pot Life	15-20 Minutes @ 70°F
Tack free, Recoat Time	5 hours @ 70°F
Color	Clear-Also available in all standard colors
Solids, Mixed	% by weight 100± 2 % by volume 100± 2
Shelf Life	Greater than 1 yr. in original unopened package
Storage	Dry, between 50°F and 90°F
Tensile Strength ASTM D-638	4,100 psi
Compressive Strength ASTM C-579	13,000 psi
Flexural Strength ASTM D-790	4,100 psi
Tensile Elongation	5%
Bond Strength	Greater than concrete

Chemical Resistance

Rez-Stone 5517 has excellent resistance to most acids, alkali, solvents, fuels, grease, salts and strong detergents. The following information is a guide for determining suitable applications of Rez-Stone 5517. The following information is based on tests conducted on totally cured samples immersed for a period of 48 hours. Rez-Stone 5517 is not recommended for constant immersion or long term containment of any chemicals but is recommended for splash spills and short term containment as indicated below.

Up to 10%	Acetic Acid
Up to 50%	Sulfuric Acid
Up to 20%	Nitric Acid
Up to 20%	Phosphoric Acid
Up to 20%	Muratic Acid
Up to 20%	Ammonium Hydroxide
Up to 50%	Sodium hydroxide
	Tri Sodium Phosphate
	Xylene
	MEK
	Mineral Spirits
	Brake Fluid
	Gasoline
	Fuel Oil
	A-1 Jet Fuel
	Beer
	Whiskey
	Tomato Paste
	Milk
	Vegetable Oil

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REZ-STONE

TECHNICAL DATA

5559 100% NOVOLAC SOLIDS EPOXY COATING

Description:

Rez-Stone 5559 is a 100% Novolac Solids Epoxy. For use on heavy indoor traffic areas such as pedestrian walkways, factory aisles or containment areas, where extreme chemical and abrasion resistance are required. Rez-Stone 5559 is ideal for a finish coat over Rez-Stone self-leveling and multi-coat epoxy sealer systems, when a high gloss flat line finish is desired. Rez-Stone 5559 also works well over Rez-Stone broadcast systems where varying degrees of non-slip is required.

Advantages:

- ✓ Outstanding chemical resistance
- ✓ Non-flammable 100% solids
- ✓ High gloss, tile like finish
- ✓ Sprayable

Limitations:

- ✓ Minimum substrate temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply over glistening wet surface

Packaging:

Unit Size: 2-1/2 quart units, 2-1/2 gallon units, 25 gallon units, 250 gallon units.

Coverage can vary from 250 square feet per gallon to 50 square feet per gallon or less depending on substrate and finish desired.

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dust, laitance, grease, wax, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Mixing:

Mix Ratio: 1-1/2 Parts A (resin) – 1 Part B (curing agent) by volume. Temperature of material must be between 60°F and 90°F at time of mixing for best application properties. Stir the part A (resin) component before blending. Mix one and one half parts by volume A with one part by volume part B for three minutes with low speed drill and paddle. Mix only that amount of material that can be used within its applicable pot life.

Application:

Rez-Stone 5559 can be applied directly over properly prepared concrete or over Rez-Stone self-leveling and sealer systems by using a brush, roller, squeegee or sprayer. If two coats are needed, a second coat can be applied as soon as the first coat is tack free. Thickness per coat will vary depending on application technique and desired finish. Rez-Stone 5559 may be applied as thin as 5 mils or as much as 1/8" in one application.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

5559 TYPICAL PROPERTIES AND SPECIFICATIONS

Blended Viscosity	2,000 cps @ 70°F
Pot Life	15-20 Minutes @ 70°F
Tack free, Recoat Time	5 hours @ 70°F
Color	Clear-Also available in all standard colors
Solids, Mixed	% by weight 100± 2 % by volume 100± 2
Shelf Life	Greater than 1 yr. in original unopened package
Storage	Dry, between 50°F and 90°F
Tensile Strength ASTM D-638	4,256 psi
Compressive Strength ASTM C-579	12,500 psi
Flexural Strength ASTM D-790	3,900 psi
Tensile Elongation	5%
Bond Strength	Greater than concrete

Chemical Resistance

Rez-Stone 5559 has excellent resistance to most acids, alkali, solvents, fuels, grease, salts and strong detergents. The following information is a guide for determining suitable applications of Rez-Stone 5559. The following information is based on tests conducted on totally cured samples immersed for a period of 48 hours. Rez-Stone 5559 is not recommended for constant immersion or long term containment of any chemicals but is recommended for splash spills and short term containment as indicated below.

Up to 10%	Acetic Acid
Up to 50%	Sulfuric Acid
Up to 20%	Nitric Acid
Up to 20%	Phosphoric Acid
Up to 20%	Muratic Acid
Up to 20%	Ammonium Hydroxide
Up to 50%	Sodium hydroxide
	Tri Sodium Phosphate
	Xylene
	MEK
	Mineral Spirits
	Brake Fluid
	Gasoline
	Fuel Oil
	A-1 Jet Fuel
	Beer
	Whiskey
	Tomato Paste
	Milk
	Vegetable Oil

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REZ-STONE

TECHNICAL DATA

5579 100% NOVOLAC SOLIDS EPOXY TOP COAT

Description:

Rez-Stone 5579 is a 100% Novolac Solids Epoxy for use on heavy indoor traffic areas such as pedestrian walkways, factory aisles or containment areas, where extreme chemical and abrasion resistance are required. Rez-Stone 5579 is ideal for a finish coat over Rez-Stone self-leveling and multi-coat epoxy sealer systems, when a high gloss orange peel or textured finish is desired.

Advantages:

- ✓ Outstanding chemical resistance
- ✓ Non-flammable 100% solids
- ✓ High gloss, tile like finish
- ✓ Sprayable

Limitations:

- ✓ Minimum substrate temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply over glistening wet surface

Packaging:

Unit Size: 2-1/2 quart units, 2-1/2 gallon units, 25 gallon units, 250 gallon units.

Coverage can vary from 250 square feet per gallon to 50 square feet per gallon or less depending on substrate and finish desired.

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dust, laitance, grease, wax, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Mixing:

Mix Ratio: 1-1/2 Parts A (resin) – 1 Part B (curing agent) by volume. Temperature of material must be between 60°F and 90°F at time of mixing for best application properties. Stir the part A (resin) component before blending. Mix one and one half parts by volume A with one part by volume part B for three minutes with low speed drill and paddle. Mix only that amount of material that can be used within its applicable pot life.

Application:

Rez-Stone 5579 can be applied directly over properly prepared concrete or over Rez-Stone self-leveling and sealer systems by using a brush, roller, squeegee or sprayer. If two coats are needed, a second coat can be applied as soon as the first coat is tack free. Thickness per coat will vary depending on application technique and desired finish. Rez-Stone 5579 may be applied as thin as 8 mils or as much as 20 mils in one application.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

5579 TYPICAL PROPERTIES AND SPECIFICATIONS

Blended Viscosity	4,500 cps @ 70°F
Pot Life	35-40 Minutes @ 70°F
Tack free, Recoat Time	8 hours @ 70°F
Color	Clear-Also available in all standard colors
Solids, Mixed	% by weight 100± 2 % by volume 100± 2
Shelf Life	Greater than 1 yr. in original unopened package
Storage	Dry, between 50°F and 90°F
Tensile Strength ASTM D-638	4,256 psi
Compressive Strength ASTM C-579	12,500 psi
Flexural Strength ASTM D-790	3,900 psi
Tensile Elongation	5%
Bond Strength	Greater than concrete

Chemical Resistance

Rez-Stone 5579 has excellent resistance to most acids, alkali, solvents, fuels, grease, salts and strong detergents. The following information is a guide for determining suitable applications of Rez-Stone 5579. The following information is based on tests conducted on totally cured samples immersed for a period of 48 hours. Rez-Stone 5579 is not recommended for constant immersion or long term containment of any chemicals but is recommended for splash spills and short term containment as indicated below. In all cases some discoloration may occur.

Up to 10%	Acetic Acid
Up to 50%	Sulfuric Acid
Up to 20%	Nitric Acid
Up to 20%	Phosphoric Acid
Up to 20%	Hydrochloric Acid
Up to 20%	Ammonium Hydroxide
Up to 50%	Sodium hydroxide
	Tri Sodium Phosphate
	Xylene
	MEK
	Mineral Spirits
	Brake Fluid
	Gasoline
	Fuel Oil
	A-1 Jet Fuel
	Beer
	Whiskey
	Tomato Paste
	Milk
	Vegetable Oil

REZ-STONE

TECHNICAL DATA

5579-C 100% SOLIDS STATIC CONTROL NOVOLAC EPOXY COATING

Description:

Rez-Stone 5579-C is a 100% Solids Novolac Epoxy Coating with electrostatic discharging properties. For use on heavy indoor traffic areas such as pedestrian walkways, factory aisles or containment areas, where extreme chemical and abrasion resistance are required. Rez-Stone 5579-C is ideal for a finish coat over Rez-Stone self-leveling and multi-coat epoxy sealer systems, when a gloss orange peel or textured finish is desired.

Advantages:

- ✓ Outstanding chemical resistance
- ✓ Non-flammable 100% solids epoxy
- ✓ High gloss, tile-like finish
- ✓ Excellent conductive properties

Limitations:

- ✓ Minimum substrate temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply over wet surfaces
- ✓ Color will fade or yellow from UV light

Packaging:

Unit Size: 2½ quart units, 2½ gallon units, 25 gallon units, 250 gallon units.

Coverage 100 square feet per gallon.

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, wax, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Mixing:

Mix Ratio: 1½ Parts A (resin) to 1 Part B (curing agent) by volume. Temperature of material must be between 60°F and 90°F at time of mixing for best application properties. Stir the Part A (resin) component before blending with curing agent. Mix one and one half by volume Part A with one part by volume Part B for three minutes with low speed drill and paddle. Mix only that amount of material that can be used within its applicable pot life.

Application:

Rez-Stone 5579-C can be applied directly over properly prepared concrete or over Rez-Stone self-leveling and sealer systems by using a brush, roller, squeegee or sprayer. If two coats are needed, a second coat can be applied as soon as the first coat is tack-free. Thickness per coat will vary depending on application technique and desired finish. Rez-Stone 5579-C must be applied at 16 mils in one application to maintain conductive properties.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

5579-C TYPICAL PROPERTIES AND SPECIFICATIONS

Blended Viscosity	4,500 cps @ 70°F
Pot Life	35-40 Minutes @ 70°F
Tack Free, Recoat Time	8 Hour @ 70°F
Color	Available in all standard colors
Solids, Mixed	% by Weight 100± 2 % by Volume 100± 2
Shelf Life	Greater than one year in original unopened package
Storage	Dry, between 50°F and 90°F
Tensile Strength ASTM D-638	4,256 psi
Compressive Strength ASTM C-579	12,500 psi
Flexural Strength ASTM D-790	3,900 psi
Tensile Elongation	5%
Bond Strength	Greater than concrete
Electrical Resistance ANSI/ESD STM7.1 - 2020	$<3.5 \times 10^{7}$ ohms
Body Voltage Generation ANSI/ESD STM97.2 - 2016	<100 volts with heel straps

CHEMICAL RESISTANCE

Rez-Stone 5579-C has excellent resistance to most acids, alkali, solvents, fuels, grease, salts and strong detergents. The following information is a guide for determining suitable applications of Rez-Stone 5579-C. The following information is based on tests conducted on totally cured samples immersed for a period of 48 hours. Rez-Stone 5579-C is not recommended for constant immersion or long term containment of any chemicals but is recommended for splash sills and short term containment as indicated below. In all cases some discoloration may occur.

Reagent	Affect
Acetic Acid	Up to 10%
Sulfuric Acid	Up to 50%
Nitric Acid	Up to 20%
Phosphoric Acid	Up to 20%
Hydrochloric Acid	Up to 20%
Ammonium Hydroxide	Up to 20%
Sodium Hydroxide	Up to 50%

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REZ-STONE

TECHNICAL DATA

5748 CHEMICAL-RESISTANT COATING

Description:

Rez-Stone 5748 is a hi-Build polymer coating used for indoor traffic areas where an extreme degree of solvent or acid resistance must be maintained. Rez-Stone 5748 is well suited as a stand-alone system or finish coat over various Rez-Stone epoxy overlays and coating systems where added chemical resistance is necessary.

Advantages:

- ✓ Excellent resistance to a wide range of chemicals
- ✓ High solids and hi-build, 10-15 mils per coat
- ✓ Tile like finish

Limitations:

- ✓ Minimum substrate temperature for application 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply over wet surface
- ✓ Do not allow chemical exposure for minimum of 14 days

Packaging:

Unit Size: 1 gallon units, 5 gallon units.

Coverage: minimum 20 mils recommended dry film thickness in two coats.

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dust, laitance, grease, wax, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Mixing:

Mix Ratio: Pre-measured kits. Temperature of material must be between 60°F and 90°F at time of mixing for best application properties. Stir the part A (resin) component before blending. Add premeasured container of part B and mix entire contents for three minutes with low speed drill and paddle. After mixing allow an induction time of 15 minutes @ 70°F. Mix only that amount of material that can be used within its application pot life.

Application:

Rez-Stone 5748 can be applied directly over properly prepared concrete surfaces or over Rez-Stone Epoxy Overlayments and sealer systems by using a brush, roller, squeegee or sprayer. Easiest application can be achieved by spreading with a notched squeegee and back rolling on spiked shoes. Two coats are required, a second coat can be applied as soon as the first coat is dry enough to walk on, usually 12-16 hours but no longer than 48 hours. Higher working temperatures will shorten pot life and working times.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

5748 TYPICAL PROPERTIES AND SPECIFICATIONS

Blended Viscosity	3,900 cps @ 70°F
Induction Time	15 minutes @ 70°F
Pot Life	60 Minutes @ 70°F
Tack free, Recoat Time	16 hours @ 70°F
Open to Foot Traffic	24 hours @ 70°F
Time to reach full chemical resistance	14 days @ 70°F
Color	Standard grey and custom
Solids, Mixed	% by weight 96± 2% % by volume 90± 2%
VOC Level	108 grams/Liter (0.9lbs/gal)
Shelf Life	1 yr. in original unopened package
Storage	Dry, between 50°F and 90°F
Bend Test ¾" diam. ASTM D522-88	270 degrees
Compressive Strength ASTM C-579	>14,000 psi
Hardness Test Barcol, ASTM D2583	78-80
Impact Test ASTM D2794	130 in. lbs
Bond Strength	Greater than concrete
Taber Abrasion, CS-17, 1000g load, 1000 cycles ASTM D4060-90	3.92mg(wt loss)/ 1000 cycles

Chemical Resistance

Rez-Stone 5748 has excellent resistance to most solvents, acids, alkali, fuels, grease, salts and strong detergents. The following information is based on 48 hour, watch glass, spot testing at 20 mils and 48 hour soak test of a 1/8" coupon. All soak tested coupons recorded no weight gain. All the spot testing show no softening of the coating, but in certain cases showed discoloration or a loss of gloss. A test area is always recommended to determine actual chemical resistance in critical situations.

Reagent	***Affect***
Acetic Acid	Discolored
Sulfuric Acid	Discolored
Nitric Acid	Discolored
Phosphoric Acid	Unaffected
Ammonium Hydroxide	Unaffected
Sodium Hydroxide	Unaffected
Tri-Sodium Hydroxide	Unaffected
NMP, N methyl pyrrolidone	Loss of gloss
Brake Fluid (Auto)	Loss of gloss
Gasoline	Unaffected
A-1 Jet Fuel	Unaffected
MEK	Unaffected
Mineral Spirits	Unaffected
Xylene	Unaffected
Beer	Unaffected
Mustard	Unaffected
Milk	Unaffected
Urine	Unaffected
Whiskey	Unaffected
Vegetable Oil	Unaffected

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Rez-Stone 5748 is not recommended for the following chemicals without further job specific testing:

Hydrofluoric Acid	Not Recommended
Hydrogen Peroxide	Not Recommended
Chlorine	Not Recommended
Chromic Acid	Not Recommended

REZ-STONE

TECHNICAL DATA

6300 CHEMICAL RESISTANT POLYURETHANE

Description:

Rez-Stone 6300 Polyurethane is a two component aliphatic catalyzed polyurethane. Rez-Stone 6300 offers maximum chalk resistance, color stability and gloss retention over any Rez-Stone epoxy floor system. Rez-Stone 6300 is formulated for use in chemical and solvent environments where resistance to abrasion and ultra violet rays is required. Also, for use in aircraft hangers, requiring high light reflectivity and resistance to jet fuels and Skydrol-500.

Advantages:

- ✓ Excellent chemical resistance
- ✓ Excellent gloss retention
- ✓ Excellent UV resistance
- ✓ Excellent Reflectivity

Limitations:

- ✓ Minimum substrate temperature 40°F
- ✓ Use in well ventilated areas
- ✓ All open flames must be extinguished before coating

Packaging:

Unit Size: 3 quart units, 1-1/2 gallon units, 15 gallon units.

Colored Units Sizes: 1 gallon units, 4 gallon units, 20 gallon units.

Recommended coverage is 300 square feet per gallon.

Surface Preparation:

Rez-Stone 6300 is recommended as a finish coat of properly applied Rez-Stone epoxy floor systems and should be used accordingly.

Mixing:

6300 Clear Mix Ratio: 2 Parts A (resin) – 1 Part B (catalyst) by volume
6300 Color Mix Ratio: 3 Parts A (resin) – 1 Part B (catalyst) by volume
For best application properties, temperature of material must be between 60°F and 80°F at time of mixing. Always pre-stir Part A component before blending. Mix appropriate amounts of Parts A & B for three minutes with low speed drill and paddle. Material may be used immediately after mixing.

Application:

Rez-Stone 6300 may be applied over properly installed epoxy floor systems using a high quality brush or roller.

Safety Precautions:

Do not use near a source of flame or spark. Store away from heat, sparks, and/or flames. When applying forced ventilation must be provided in enclosed areas. Avoid all contact with eyes and skin. Wear approved and fitted respirator, protective gloves and glasses. Do not take internally. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

6300 TYPICAL PROPERTIES AND SPECIFICATIONS

Viscosity	70 KU
Pot Life	4 hours @ 70°F/50% RH
Tack free	2 hours
Recoat Time	Minimum 4-6 hours Maximum 10 – 12 hours
Color	Clear-Also available in all standard colors
Solids, Mixed	% by weight 66± 2 % by volume 54± 2
Shelf Life	Greater than 1 yr. in original unopened package
Storage	Dry, between 40°F and 90°F
Flexibility	Excellent
Abrasion Resistance	Excellent

Chemical Resistance

Rez-Stone 6300 has good resistance to most common acids, alkali, fuels, grease, salts and strong detergents. The following information is based on 24 hour soak testing at 5 mils. The information is correct to the best of our knowledge. A test area is always recommended to determine actual chemical resistance in critical situations.

Reagent	***Affect***
10% Acetic Acid	Unaffected
20% Acetic Acid	Unaffected
10% Chromic Acid	Unaffected
20% Hydrochloric Acid	Unaffected
10% Nitric Acid	Unaffected
40% Phosphoric Acid	Unaffected
10% Sulfuric Acid	Unaffected
40% Sulfuric Acid	Slight Staining
Ammonium Hydroxide	Unaffected
Sodium Hydroxide	Unaffected
Tri-Sodium Phosphate	Unaffected
Ethyl Alcohol	Unaffected
Isopropyl Alcohol	Unaffected
Brake Fluid (Auto)	Slight Softening
Skydrol 500 B Hydraulic Fluid	Unaffected
Gasoline	Unaffected

Reagent	***Affect***
A-1 Jet Fuel	Unaffected
Acetone	Unaffected
MEK	Unaffected
Toluene	Unaffected
Methyl Chloride	Slight Softening
Trichlorethylene	Slight Softening
Mineral Spirits	Unaffected
Xylene	Unaffected
Naphtha	Unaffected
Beer	Unaffected
Mustard	Unaffected
Milk	Unaffected
Urine	Unaffected
Whiskey	Unaffected
Vegetable Oil	Unaffected

REZ-STONE

TECHNICAL DATA

6500 POLYASPARTIC URETHANE COATING

Description:

Rez-Stone 6500 Polyaspartic Urethane is 100% solids, two component aliphatic catalyzed urethane system. Rez-Stone 6500 offers maximum chalk resistance, color stability and gloss retention over any Rez-Stone epoxy floor system. Rez-Stone 6500 is formulated for use in industrial environments where resistance to abrasion and ultra violet rays is required.

Advantages:

- ✓ 100% solids, low odor
- ✓ Excellent gloss retention
- ✓ Excellent UV resistance
- ✓ Excellent Reflectivity

Limitations:

- ✓ Minimum substrate temperature 40°F
- ✓ Use in well ventilated areas
- ✓ All open flames must be extinguished before coating

Packaging:

Unit Size: 2 quart units, 2 gallon units, 10 gallon units.

Recommended coverage is 80-100 square feet per gallon.

Surface Preparation:

Rez-Stone 6500 is recommended as a finish coat of properly applied Rez-Stone epoxy floor systems and should be used accordingly.

Mixing:

6500 Mix Ratio: 2 Part A (resin) – 1 Part B (catalyst) by volume. For best application properties, temperature of material must be between 60°F and 80°F at time of mixing. Always pre-stir Part A component before blending. Mix appropriate amounts of Parts A & B for three minutes with low speed drill and paddle. Material may be used immediately after mixing.
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Application:

Rez-Stone 6500 may be applied over properly installed epoxy floor systems using a high quality brush or roller.

Safety Precautions:

Do not use near a source of flame or spark. Store away from heat, sparks, and/or flames. When applying forced ventilation must be provided in enclosed areas. Avoid all contact with eyes and skin. Wear approved and fitted respirator, protective gloves and glasses. Do not take internally. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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6500 TYPICAL PROPERTIES AND SPECIFICATIONS

Viscosity	1000 cps
Pot Life	25 min. @ 70℉/50% RH
Tack free	8 hours
Recoat Time	Minimum 4-6 hours Maximum 24 hours
Color	Clear-Also available in all standard colors
Solids, Mixed	% by weight 99.89 % by volume 99.90
Shelf Life	Greater than 1 yr. in original unopened package
Storage	Dry, between 40℉ and 90℉
Flexibility	Excellent
Abrasion Resistance	Excellent

REZ-STONE

TECHNICAL DATA

2610 EPOXY CRACK REPAIR KIT
2611 FAST SET CRACK REPAIR KIT
2612 SEMI-RIGID CRACK REPAIR KIT

Description:

Rez-Stone 2610, 2611 and 2612 Epoxy Crack Repair Kits are premeasured, solvent free, rapid strength gaining materials. They are four industrial use to repair cracks, holes and spalled areas of concrete less than ¼" deep. Uniquely designed, to a butter-like consistency Rez-Stone Crack Repair material will not run or sag. Excellent for repairs directly over concrete or within Rez-Stone Floor Systems. They are available in regular, flexible and fast setting formulations for normal and adverse conditions.

Advantages:

- ✓ Rapid strength gain
- ✓ Non-sagging
- ✓ Non-flammable 100% solids epoxy
- ✓ Premeasured kits
- ✓ Featheredge or apply up to ¼" thick

Limitations:

- ✓ Substrate minimum temperature 50°F for 2610 & 2612 or 35°F for 2611
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply over wet substrate

Packaging & Coverage:

Unit Size: 3 quart units and 3 gallon units (packaged in kit form for easy mixing.

Average coverage for cracks or joints ¼" deep x ¼" wide: 1 gallon will fill 308 lineal feet. One 3 quart unit will fill 230 lineal feet.

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, wax, curing compounds and other bond inhibiting contaminates by shot blasting, scarification or other approved mechanical methods.

Mixing:

Temperature of material should be the same as ambient air temperature at time of mixing for best application properties. Pour entire contents of Part B into Part A container, scrape the sides to remove all of the Part B component. Mix for 3 minutes with mechanical agitation. Mix to a uniform blend working the sides and bottom of the can to insure all material has been mixed.

Application:

Priming is not necessary but is recommended when material will be subjected to extreme heat or cold. Place mixed material with a hand trowel or putty knife. Finish with the same tools by pressing firmly to the substrate and strike off clean. Ambient air and surface temperature will effect both the pot life and cure times of installed material. As a rule of thumb, mixed material should be placed and finished within 10 to 15 minutes of mixing. Once cured, Rez-Stone 2610 and 2612 may be coated over directly. Re-Stone 2611 may need additional surface preparation before over coating.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 Epoxy Reducer.

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TYPICAL PROPERTIES AND SPECIFICATIONS

	2610	2611	2612
Compressive Strength ASTM D-695	≥10,000 psi	≥10,000 psi	≥6,300 psi
Tensile Strength ASTM D-638	5,500 psi	9,000 psi	3,500 psi
Tensile Elongation	10%	6%	50%
Flexural Strength	9,400 psi	14,000 psi	5,000 psi
Bond Strength	Greater than concrete		
Standard Color	Concrete (available in all standard colors)		
Shelf Life	One year in original package, unopened		
Storage	Dry, between 50°F and 90°F		

CURE TIMES

	2610 & 2612		2611
Temperature	**Pot Life**	**Truck Traffic**	**Pot Life/Truck Traffic**
40°F	Not Recommended		65 minutes/20 hours
50°F	60 minutes	20 hours	35 minutes/10 hours
60°F	40 minutes	10 hours	20 minutes/6 hours
70°F	25 minutes	8 hours	10 minutes/4 hours
80°F	10 minutes	5 hours	Not Recommended

Actual cure time may vary due to patch thickness and length of mixing time. Best working and curing properties are obtained by conditioning material to 60°F - 80°F for 2610 and 2612, 35°F - 60°F for 2611

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REZ-STONE

TECHNICAL DATA

1000 CLEANER & DEGREASER SOAP

Description:

Rez-Stone 1000 is a heavy duty degreaser scientifically formulated to remove grease, oil and surface soil from concrete floors. It is a highly concentrated formulation, which works instantly and has low foaming properties and free rising action.

Recommended for:

Use in automatic or with conventional floor equipment to remove soil from concrete floors.

Floor Preparation:

Sweep loose debris and particles from the floor that could cause problems with efficient operation of the vacuum system.

Application:

Dilute approximately 10:1 (13oz. per gallon) with water. Apply with an automatic scrubber with wire or carbon brushes. Double scrub to permit the chemical action to take place. Re-scrub and pick up the solution. If conventional floor equipment is used, apply with mop or sprinkling can and allow to remain wet for 5 minutes before scrubbing. Rinse well after pickup.

Safety Precautions:

Severe eye and skin irritant. Vapors are harmful. Avoid contact with skin and eyes. Do not breathe vapors. Harmful if swallowed. Keep out of reach of children.

For industrial use only by trained personnel

Please read product label for cautionary and warning statements before using.

1000 TYPICAL PROPERTIES AND SPECIFICATIONS

Color	Red
Fragrance	Characteristic (Glycolether)
Appearance	Thin clear liquid
Viscosity	Water thin
pH @ 100%	13.3 – 13.9
pH @ 10%	12.4 – 13.0
Alkali as Na^2O	Active 4.63 – 4.67 Total 5.43 – 5.47
Active Ingredients	25%
Specific Gravity	1.08 (9.06 lb/gal)
Foam Test	Moderate
Oven Stability	Passes
Freeze Thaw Stability	3 cycles

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