

# REZSTONE

## Epoxy Floor Systems

### BULLETIN #10 – CONCRETE SURFACE PREPARATION

Proper concrete surface preparation is the most important part of the application of protective coatings or overlamings. 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 contaminants 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 the 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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# REZSTONE

## Epoxy Floor Systems

### 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 is going over.

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

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 patched 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 at 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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# REZSTONE

## Epoxy Floor Systems

### GENERAL DESCRIPTION OF EPOXY SYSTEMS

Though no two facilities or 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 aesthetics 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 1/4" 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 by providing a durable wear surface for heavy-wheeled traffic and high impact resistance. Epoxy mortar is excellent for patching deep holes, ramping, and re-pitching floors.

#### **Other Systems:**

Urethane, oil-modified, and moisture-cured systems are used to dust-proof 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 do 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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# REZSTONE

## Epoxy Floor Systems

### 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 restore shine.



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# REZSTONE

## Epoxy Floor Systems

## SPECIFICATIONS

### 9220-NV TWO-COAT EPOXY NOVOLAC COATING SYSTEM

**Description:**

Rez-Stone 9220-NV is an economical epoxy coating system, which provides hi-build 20 mil protection over new or like new concrete surfaces where increased chemical resistance is needed. Rez-Stone 9220-NV is designed for light-to-medium industrial floor surface where light orange peel finish is required. Rez-Stone 9220-NV incorporates a 100% solids novolac epoxy primer and topcoat for long lasting, semi-gloss, textured finish, resistant to aggressive industrial cleaners, fluids, and acids.

**Advantages:**

- ✓ Economical
- ✓ Easy-fast application
- ✓ High abrasion and chemical resistance
- ✓ Unique orange peel finish
- ✓ Solvent free
- ✓ No VOC's

**Limitations:**

- ✓ Substrate minimum temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Novolac topcoat has poor UV resistance from yellowing
- ✓ Do not apply to wet substrate or substrates exhibiting moisture vapor transmission

**Coverage Nominal 20 Mils:**

Prime Coat	175-200 Square Feet per Gallon (8 mils)	Rez-Stone 5559
Topcoat	125-150 Square Feet per Gallon (12 mils)	Rez-Stone 5579

**Surface Preparation:**

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds, and other bond-inhibiting contaminants by shot blasting, scarification, or other approved mechanical methods. Due to the relatively thin film 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 5559 using a flat rubber squeegee or roller. After primer has cured, fill all cracks and holes using Rez-Stone 5559 epoxy crack repair. After patching, apply Rez-Stone 5579 using a notched rubber squeegee or roller and back-roll 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 5579 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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**9220-NV TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM**

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Tensile Strength ASTM D-638	4,256 psi
Compressive Strength ASTM C-579	12,000 psi
Flexural Strength ASTM C-579	3,900 psi
Tensile Elongation	5%
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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# REZSTONE

## Epoxy Floor Systems

## SPECIFICATIONS

### 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 surface 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 (8 mils)	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 contaminants by shot blasting, scarification, or other approved mechanical methods. Due to the relatively thin film 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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**9220-OP TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM**

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Tensile Strength ASTM D-638	2,400 psi
Compressive Strength ASTM C-579	9,200 psi
Flexural Strength ASTM C-579	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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# REZSTONE

## Epoxy Floor Systems

## SPECIFICATIONS

### 9230 TWO-COAT EPOXY FLOOR COATING 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, flat-line finish, 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
- ✓ 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 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 5017
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 contaminants by shot blasting, scarification, or other approved mechanical methods. Due to the relatively thin film 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 5017 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.



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**9230 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM**

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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

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# REZSTONE

## Epoxy Floor Systems

## SPECIFICATIONS

### 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 surface, incorporating two 100% solids epoxy base coats for adhesion and filling properties followed by one coat of Rez-Stone 6300 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 (7 mil)	Rez-Stone 5017
Intermediate Coat	350 Square Feet per Gallon (5 mil)	Rez-Stone 5017
Topcoat	300 Square Feet per Gallon (3 mil)	Rez-Stone 6300

**Surface Preparation:**

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds, and other bond-inhibiting contaminants by shot blasting, scarification, or other approved mechanical methods. Due to the relatively thin film 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 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.



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**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 patch 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

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# REZSTONE

## Epoxy Floor Systems

## SPECIFICATIONS

### 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 surface, incorporating two 100% solids epoxy base coats for adhesion and one urethane topcoat. Use where high-light reflectivity, outstanding abrasion resistance, and easy cleanability 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

**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 (8 mil)	Rez-Stone 5017
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 contaminants by shot blasting, scarification, or other approved mechanical methods. Due to the relatively thin film 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 5017. 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 with a notched squeegee at the rate of 75 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 nor 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
<u>Coefficient of Friction ASTM D-2047</u>	
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

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# REZSTONE

## Epoxy Floor Systems

## SPECIFICATIONS

### 9334 THREE-COAT EPOXY FLOOR SYSTEM

#### Description:

Rez-Stone 9334 is a three-coat epoxy floor system designed for hi-build epoxy protection over existing concrete substrates where good filling and leveling properties are needed. Rez-Stone 9334 provides high gloss and excellent wear resistance on light-to-heavy industrial floor applications. Rez-Stone 9334 incorporates three coats of 100% solids epoxy for an economical, long-lasting 34 mil floor system.

#### Advantages:

- ✓ Economical
- ✓ Easy application
- ✓ Excellent light reflectivity
- ✓ 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 sound

#### 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 dirt, laitance, grease, curing compounds, and other bond-inhibiting contaminants by shot blasting, scarification, or other approved mechanical methods. Due to the relatively thin film 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 5017. 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 kits. After patching, an intermediate coat of Rez-Stone 5017 is applied with a squeegee or steel trowel to help heal the roughness of the floor. A topcoat of Rez-Stone 5078 hi-build chemical and abrasion resistant epoxy is applied at 100 square feet per gallon for a textured 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 top 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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**9334 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM**

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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

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# REZSTONE

## Epoxy Floor Systems

## SPECIFICATIONS

### 9335-C 35 MIL CONDUCTIVE 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 surface where static and electrical conducting finishes are required, along with increased abrasion and chemical resistance. Rez-Stone 9335-C incorporates a conductive 100% solids epoxy basecoat and topcoat for a long-lasting, high-gloss, textured finish, resistant to most common industrial cleaners and fluids.

**Advantages:**

- ✓ Increased chemical resistance
- ✓ Easy fast installation
- ✓ High abrasion resistance
- ✓ Static-dissipating
- ✓ 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

**Coverage Nominal 35 Mils:**

Prime Coat	200-250 Square Feet per Gallon	Rez-Stone 5017
Base Coat	100 Square Feet per Gallon	Rez-Stone 5017-C
Topcoat	95 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 contaminants by shot blasting, scarification, or other approved mechanical methods. Due to the relatively thin film 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 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-C 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 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 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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**9335-C 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 C-579	3,900 psi
Tensile Elongation	5%
Base Coat Color	Black only
Topcoat Color	Most standard colors
Shore "D" Hardness ASTM D-2240	85-90
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	$2.5 \times 10^{-5}$ in/in/deg F
Impact Resistance MIL-D-3134F	No Indention
Bond Strength ACI Committee 403/59-43	350 psi (100% concrete failure)
Flammability ASTM D-635	Self- extinguishing
Electrical Resistance ESD STM 7.1-2001	Less than 100 megaohms

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# REZSTONE

## Epoxy Floor Systems

## SPECIFICATIONS

### 9400 EPOXY BROADCAST FLOOR SYSTEM

**Description:**

Rez-Stone 9400 is a silica aggregate filled epoxy floor system that provides hi-build protection, up to 1/16" D.F.T., over new concrete substrates. Rez-Stone 9400 is designed for medium-to-high industrial traffic areas where varying degrees of non-slip finishes are required. Rez-Stone 9400 incorporates multiple epoxy base coats with a broadcast silica aggregate. Use Rez-Stone 9400 where chemical, wear, and impact-resistance and non-slip finishes 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 from 1/16" to 1/8"
- ✓ 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 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
Binder Coat	90 Square Feet per Gallon	Rez-Stone 5017
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 contaminants by shot blasting, scarification, or other approved mechanical methods.

**Application:**

After proper surface preparation, apply a prime coat using Rez-Stone 5017 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 5017 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 and 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 or less 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
<u>Cure Times:</u>	
Tack-Free Set for Recoat	6 Hours @ 70°F
Initial Set for Light Traffic	16 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F

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# REZSTONE

## Epoxy Floor Systems

## SPECIFICATIONS

### 9402 EPOXY DOUBLE 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 new or 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, and impact-resistance and non-slip finishes 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"
- ✓ 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 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
Binder Coat	90 Square Feet per Gallon	Rez-Stone 5017
Broadcast Aggregate	1 Pound per Square Foot	#25 Mesh Dry Silica
Binder Coat	90 Square Feet per Gallon	Rez-Stone 5017
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 contaminants by shot blasting, scarification or other approved mechanical methods.

**Application:**

After proper surface preparation, apply a prime coat using Rez-Stone 5017 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 5017 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 and 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 or less 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**

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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
<u>Cure Times:</u>	
Tack-Free Set for Recoat	6 Hours @ 70°F
Initial Set for Light Traffic	16 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F

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**TYPICAL PROPERTIES OF CURED SYSTEM**

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

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# REZSTONE

## Epoxy Floor Systems

## SPECIFICATIONS

### 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
- ✓ Solvent free
- ✓ No VOC's

#### Limitations:

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

#### Coverages at Nominal 1/16" Thickness:

Prime Coat	200 Square Feet per Gallon	Rez-Stone 5017
Binder Coat	90 Square Feet per Gallon	Rez-Stone 5017
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 contaminants by shot blasting, scarification, or other approved mechanical methods. Due to the relatively thin film 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 with 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 and 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
<u>Cure Times:</u>	
Tack-Free Set for Recoat	6 Hours @ 70°F
Initial Set for Light Traffic	16 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F

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# REZSTONE

## Epoxy Floor Systems

## SPECIFICATIONS

### 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
- ✓ Solvent free
- ✓ No VOC's

**Limitations:**

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

**Coverages at Nominal 1/8" Thickness:**

Prime Coat	200 Square Feet per Gallon	Rez-Stone 5017
Broadcast Aggregate	½ Pound per Square Foot	#28 Color Quartz
Binder Coat	90 Square Feet per Gallon	Rez-Stone 5017
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 contaminants by shot blasting, scarification, or other approved mechanical methods. Due to the relatively thin film 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 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 a second binder coat and repeat with second broadcast or quartz. 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.

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**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**

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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
<b>Cure Times:</b>	
Tack-Free Set for Recoat	6 Hours @ 70°F
Initial Set for Light Traffic	16 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F

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# REZSTONE

## Epoxy Floor Systems

## SPECIFICATIONS

### 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, and impact-resistance
- ✓ Variable thickness up to 1/8"
- ✓ Solvent free
- ✓ No VOC's

**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.

**Coverages at Nominal 1/8" Thickness:**

Prime Coat	175-225 Square Feet per Gallon	Rez-Stone 5559
Binder Coat	90 Square Feet per Gallon	Rez-Stone 5559
Broadcast Aggregate	1 Pound per Square Foot	#25 Mesh Dry Silica
Binder Coat	90 Square Feet per Gallon	Rez-Stone 5559
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 contaminants by shot blasting, scarification, or other approved mechanical methods.

**Application:**

After proper surface preparation, apply a prime coat using Rez-Stone 5559 with 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 5559 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 and 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 or less 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.

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**9452 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED BINDER**

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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
<u>Cure Times:</u>	
Tack-Free Set for Recoat	5 Hours @ 70°F
Initial Set for Light Traffic	12 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F

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**TYPICAL PROPERTIES OF CURED SYSTEM**

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

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**CHEMICAL RESISTANCE**

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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.

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# REZSTONE

## Epoxy Floor Systems

## SPECIFICATIONS

### 9490-C 1/16" CONDUCTIVE 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 degrees of non-slip are required. Rez-Stone 9490-C incorporates multiple conductive base coats with a silica aggregate and a conductive topcoat. Use Rez-Stone 9490-C where chemical, wear, impact-resistance, and conductive 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"
- ✓ 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 sound
- ✓ Do not apply to wet substrate or substrates exhibiting moisture vapor transmission

**Coverages at Nominal 1/16" Thickness:**

Conductive Prime Coat	175-200 Square Feet per Gallon	Rez-Stone 5017-C
Conductive Binder Coat	90 Square Feet per Gallon	Rez-Stone 5017-C
Silica Aggregate	1 Pound 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 contaminants by shot blasting, scarification, or other approved mechanical methods.

**Application:**

After proper surface preparation, apply a prime coat using Rez-Stone 5017-C with a flat rubber squeegee or roller. After primer has cured, fill all cracks and holes using Rez-Stone 2610-C conductive epoxy crack repair. After patching, apply a conductive binder coat of Rez-Stone 5017-C, 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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**9490-C 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 ASTM F-150-89 Electrode to Electrode	0.5 – 25 Megaohms
Electrical Resistance ASTM F-150-89 Floor to Ground	Greater than 0.5 Megaohms
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
<u>Cure Times:</u>	
Tack-Free Set for Recoat	6 Hours @ 70°F
Initial Set for Light Traffic	16 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F

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# REZSTONE

## Epoxy Floor Systems

## SPECIFICATIONS

### 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 1/4" it is more impact, chemical, and wear-resistant than conventional floor systems. Typically 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
- ✓ Solvent free
- ✓ No VOC's

**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 1/4" 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

**Surface Preparation:**

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds, and other bond-inhibiting contaminants 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 with 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 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 topcoating. Roller-apply Rez-Stone 5078 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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**9500 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM**

Working Time	30-35 minutes @ 70°F
Cure Time: Initial Set-for-Life 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	$2.5 \times 10^{-5}$ 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

**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 patch is always recommended to determine actual chemical resistance in critical situations.

<b>Reagent</b>	<b>Affect</b>
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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# REZSTONE

## Epoxy Floor Systems

## SPECIFICATIONS

### 9500-C CONDUCTIVE 1/4" 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
- ✓ Solvent free
- ✓ No VOC's

**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-C
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 contaminants by shot blasting, scarification, or other approved mechanical methods.

**Application:**

After proper surface preparation, apply a prime coat using Rez-Stone 5014 primer-binder with 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. Install grounding cords if necessary to earth ground every 1,000 square feet before topcoating. Squeegee-apply optional 5017-C 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.



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**Clean-Up:**

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

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**9500-C TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM**

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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 ASTM F-150-89	Less than $1 \times 10^6$ ohms
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	$2.5 \times 10^{-5}$ 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
<u>Cure Times:</u>	
Initial Set for Light Traffic	16 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F

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# REZSTONE

## Epoxy Floor Systems

## SPECIFICATIONS

### 9510 COLOR QUARTZ EPOXY FLOOR TOPPING

**Description:**

Rez-Stone 9510 is a decorative, hi-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 hi-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
- ✓ Solvent free
- ✓ No VOC's

**Limitations:**

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

**Coverage at Nominal 1/4" Thickness:**

Prime Coat	220 Square Feet per Gallon	Rez-Stone 5017
Matrix Binder	25 Square Feet per Gallon	Rez-Stone 5017
Matrix Aggregate	2 Pound per Square Foot	Coarse Color Quartz
Grout	85 Square Feet per Gallon	Rez-Stone 5017
Glaze	85 Square Feet per Gallon	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 contaminants by shot blasting, scarification, or other approved mechanical methods.

**Application:**

Surface will be primed using Rez-Stone 5017 primer-binder with 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 screed 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 5058 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
<u>Cure Times:</u>	
Initial Set for Light Traffic	16 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F

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# REZSTONE

## Epoxy Floor Systems

## SPECIFICATIONS

### 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 1/4" 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
- ✓ Solvent free
- ✓ No VOC's

#### Limitations:

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

#### Coverage at Nominal 1/4" 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 contaminants 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 with 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 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 topcoating. Roller-apply Rez-Stone 5078 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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**9550 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM**

Working Time	30-35 minutes @ 70°F
Cure Time: Initial Set-for-Life 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	$2.5 \times 10^{-5}$ 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

**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 patch 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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# REZSTONE

## Epoxy Floor Systems

## SPECIFICATIONS

### 9594 3/16" DECORATIVE EPOXY FLOOR TOPPING

**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
- ✓ Solvent free
- ✓ No VOC's

**Limitations:**

- ✓ Substrate minimum temperature 55°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply to 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 contaminants by shot blasting, scarification, or other approved mechanical methods.

**Application:**

After proper surface preparation, Rez-Stone primer and overlayment material are 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-textured 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.



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**9594 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM**

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	0.06perms
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	2.5x10 <sup>-6</sup> in/in/deg F
Impact Resistance MIL-D-313F	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
Working Time	30-35 minutes @ 70°F
<b>Cure Times:</b>	
Initial Set for Light Traffic	16 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F

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# REZSTONE

Epoxy Floor Systems

TECHNICAL DATA

## 5001 LOW-VISCOSITY EPOXY ADHESIVE

### Description:

Rez-Stone 5001 is a two-component, 100% solids, low-viscosity, epoxy adhesive. It is 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
- ✓ Sprayable
- ✓ Excellent adhesion to concrete and most structural materials
- ✓ Solvent free
- ✓ No VOC's

### Limitations:

- ✓ Minimum substrate 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, 150 gallon units.

Coverage will vary depending on the porosity of the surface, between 50 and 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 contaminants by shot blasting, scarification, or other approved mechanical methods. Surface may be dry or damp but free of standing water before epoxy application.

### Mixing:

Mix Ratio: 2 Parts A to 1 Part B.

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

### 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 puddling 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 recoat 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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**5001 TYPICAL PROPERTIES AND SPECIFICATIONS**

Blended Viscosity	1,490 cps
Pot Life	60-90 Minutes
Tack-Free Time	8 Hours
Color	Clear and Amber
Solids Contents	% by Weight % by Volume
Shelf Life	Greater than one year 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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# REZSTONE

Epoxy Floor Systems

TECHNICAL DATA

## 5007 WATER-BASED EPOXY BONDING AGENT

### Description:

Rez-Stone 5007 is a two-component, 100% solids, water-reducible, epoxy bonding agent. It is 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
- ✓ Solvent free

### Limitations:

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

### Coverage at Normal 1/4" 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 contaminants 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 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 topcoating. Roller-apply Rez-Stone 5078 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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**5007 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM**

Working Time	30-35 minutes @ 70°F
Cure Time: Initial Set-for-Life 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	$2.5 \times 10^{-5}$ 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.

**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 patch 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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# REZSTONE

Epoxy Floor Systems

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
- ✓ Solvent free
- ✓ No VOC's
- ✓ Fast cure

### **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 gallon units, 15 gallon units, 150 gallon units.  
Coverage will vary with use.

### **Surface Preparation:**

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, wax, curing compounds, and other bond-inhibiting contaminants 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. Pre-mix 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:**

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.



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**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 one year 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	13,000 psi
Flexural Strength ASTM D-790	4,000 psi
Tensile Elongation	4%
Bond Strength	Greater than concrete

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# REZSTONE

Epoxy Floor Systems

**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
- ✓ Solvent free
- ✓ No VOC's

### **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 gallon units, 15 gallon units, 150 gallon units.  
Coverage will vary with use.

### **Surface Preparation:**

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, wax, curing compounds, and other bond-inhibiting contaminants 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. Pre-mix 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:**

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.



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**5017 TYPICAL PROPERTIES AND SPECIFICATIONS**

Blended Viscosity	550 cps @ 70°F
Pot Life	20-25 Minutes @ 70°F
Tack-Free, Recoat Time	6 Hour @ 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	2,100 psi
Compressive Strength ASTM C-579	11,000 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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# REZSTONE

Epoxy Floor Systems

**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. Rez-Stone 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
- ✓ Solvent free
- ✓ No VOC's

### **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 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 dirt, laitance, grease, wax, curing compounds, and other bond-inhibiting contaminants 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 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.



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**5058 TYPICAL PROPERTIES AND SPECIFICATIONS**

Blended Viscosity	1,750 cps @ 70°F
Pot Life	20-25 Minutes @ 70°F
Tack Free, Recoat Time	6 Hour @ 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 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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# REZSTONE

Epoxy Floor Systems

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
- ✓ Gloss tile-like finish
- ✓ Moisture insensitive
- ✓ Solvent free
- ✓ No VOC's

### 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 contaminants 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 overlayers 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 C-579	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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# REZSTONE

Epoxy Floor Systems

TECHNICAL DATA

## 5078-C 100% SOLIDS CONDUCTIVE 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 static-dissipating 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
- ✓ Gloss tile -like finish
- ✓ Moisture insensitive
- ✓ Solvent free
- ✓ No VOC's

### 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 contaminants 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 C-579	11,200 psi
Flexural Strength ASTM D-790	4,300 psi
Tensile Elongation	10%
Bond Strength	Greater than concrete
Surface Resistance ASTM F-150-89	<1x10 <sup>6</sup> Mega OHMS

**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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# REZSTONE

Epoxy Floor Systems

TECHNICAL DATA

## 5365 PIGMENTED HI-SOLIDS 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

### 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 contaminants

### Packaging:

Unit Size: 4 gallon in 4/1 gallon box. 2 gallons Part A; 8.5 lbs. (approx.) each gallon, 2 gallons Part B, 10.5 lbs. (approx.) each gallon.  
Coverage: 250-350 square feet per gallon depending on porosity and type of substrate.

### Surface Preparation:

Apply to clean and 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: 1 Part A and 1 Part B by volume 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 Xylene. 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.



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**5365 TYPICAL PROPERTIES AND SPECIFICATIONS**

Solids by Weight	64% ± 2 depending on color
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°F 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

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# REZSTONE

Epoxy Floor Systems

TECHNICAL DATA

## 5517 100% SOLIDS NOVOLAC EPOXY PRIMER BINDER

### **Description:**

Rez-Stone 5517 is a 100% solids novolac epoxy 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
- ✓ High-gloss tile-like finish
- ✓ Sprayable
- ✓ Solvent free
- ✓ No VOC's

### **Limitations:**

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

### **Packaging:**

Unit Size: 2½ quart units, 2½ 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 dirt, laitance, grease, wax, curing compounds, and other bond-inhibiting contaminants 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:**

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.



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**5517 TYPICAL PROPERTIES AND SPECIFICATIONS**

Blended Viscosity	900 cps @ 70°F
Pot Life	15-20 Minutes @ 70°F
Tack Free, Recoat Time	5 Hour @ 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	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.

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

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# REZSTONE

Epoxy Floor Systems

**TECHNICAL DATA**

## 5579 100% SOLIDS NOVOLAC EPOXY TOPCOAT

### **Description:**

Rez-Stone 5579 is a 100% solids novolac epoxy. It is 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 gloss orange peel or textured finish is desired.

### **Advantages:**

- ✓ Outstanding chemical resistance
- ✓ High gloss, tile-like finish
- ✓ Sprayable
- ✓ Solvent free
- ✓ No VOC's

### **Limitations:**

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

### **Packaging:**

Unit Size: 2½ quart units, 2½ 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 dirt, laitance, grease, wax, curing compounds, and other bond-inhibiting contaminants 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 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.



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**5579 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	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	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.

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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# REZSTONE

Epoxy Floor Systems

TECHNICAL DATA

## 5579-C CHEMICAL RESISTANT CONDUCTIVE HI-BUILD NOVOLAC EPOXY COATING

### Description:

Rez-Stone 5579-C is a 100% solids hi-build novolac epoxy coating for labs or secondary containment areas, where static-dissipating properties and a high degree of chemical resistance are needed. Rez-Stone 5579-C is ideal for a finish coat over Rez-Stone overlays and coating systems where chemical and abrasion resistance are required along with electrical conductivity. Rez-Stone 5579-C has very little odor and has excellent resistance to a wide range of solvent and acids.

### Advantages:

- ✓ Excellent conductivity
- ✓ Gloss tile-like finish
- ✓ Excellent chemical resistance
- ✓ Solvent free
- ✓ No VOC's

### Limitations:

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

### Packaging:

Unit Size: 5 quart units, 5 gallon units, 25 gallon units, 250 gallon units.  
Coverage will be 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 contaminants 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 primed Rez-Stone epoxy overlayments and coating systems by using a brush, roller, or squeegee. 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. Application thickness of 95 square feet per gallon is REQUIRED 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.



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**5579-C TYPICAL PROPERTIES AND SPECIFICATIONS**

Blended Viscosity	5,500 cps @ 70°F
Pot Life	30-35 Minutes @ 70°F
Tack Free, Recoat Time	10 Hours @ 70°F
Cured for Foot Traffic	18 Hours @ 70°F
Cured for Forklift Traffic	24 Hours @ 70°F
Color	Most medium or dark 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	4.5%
Bond Strength	Greater than concrete
Surface Resistance ASTM F-150-89	Less than 1.0 Megaohms

**CHEMICAL RESISTANCE**

Rez-Stone 5579-C has a 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 patch is always recommended to determine actual chemical resistance in critical situations. Strong acids and chemical mixtures may cause staining; bench testing is always recommended.

Reagent	Affect
10% Acetic Acid	Unaffected
50% Sulfuric Acid	Unaffected
20% Nitric Acid	Unaffected
20% 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	Slight Softening
Mineral Spirits	Unaffected
Toluene	Slight Softening *
Xylene	Unaffected
Beer	Unaffected
Mustard	Unaffected
Milk	Unaffected
Urine	Unaffected
Isopropyl Alcohol	Unaffected
Whiskey	Unaffected
Vegetable Oil	Unaffected

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# REZSTONE

Epoxy Floor Systems

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
- ✓ Gloss 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 surfaces
- ✓ 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 dirt, laitance, grease, wax, curing compounds, and other bond-inhibiting contaminants 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 pre-measured 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 applicable pot life.

### Application:

Rez-Stone 5748 can be applied directly over properly prepared concrete surfaces or over Rez-Stone epoxy overlayers 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. The 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.



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**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 hour @ 70°F
Cured for Foot Traffic	24 hours @ 70°F
Time to Reach Full Chemical Resistance	14 days @ 70°F
Color	Standard gray and custom
Solids, Mixed	% by weight 96± 2 % by volume 90± 2
VOC Level	108 grams/liter (0.9lbs/gal)
Shelf Life	Greater than one year 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 good 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 spot testing showed no softening of the coating, but in certain cases showed discoloration or loss of gloss. 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
Acetic Acid	Discolored
Sulfuric Acid	Discolored
Nitric Acid	Discolored
Phosphoric Acid	Unaffected
Ammonium Hydroxide	Unaffected
Sodium Hydroxide	Unaffected
Tri-Sodium Phosphate	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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# REZSTONE

Epoxy Floor Systems

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 ultraviolet rays is required. Also, it is 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
- ✓ High gloss finish

### 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, 1½ gallon units, 15 gallon units

Colored Unit Sizes: 1 gallon units, 4 gallon units, 20 gallon units

Recommended coverage is 325-450 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:

Mix Ratio: 2 Parts A (resin) to 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 and 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.



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### 6300 TYPICAL PROPERTIES AND SPECIFICATIONS

Viscosity	70 KU
Pot Life	4 Hours @ 70°F / 50% RH
Tack Free	2 Hour
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 one year 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	Reagent	Affect
10% Acetic Acid	Unaffected	A-1 Jet Fuel	Unaffected
20% Acetic Acid	Unaffected	Acetone	Unaffected
10% Chromic Acid	Unaffected	MEK	Unaffected
20% Hydrochloric Acid	Unaffected	Toluene	Unaffected
10% Nitric Acid	Unaffected	Methyl Chloride	Slight Softening
40% Phosphoric Acid	Unaffected	Trichlorethylene	Slight Softening
10% Sulfuric Acid	Unaffected	Mineral Spirits	Unaffected
40% Sulfuric Acid	Slight Softening	Xylene	Unaffected
Ammonium Hydroxide	Unaffected	Naphtha	Unaffected
Sodium Hydroxide	Unaffected	Beer	Unaffected
Tri-Sodium Phosphate	Destroyed	Mustard	Unaffected
Ethyl Alcohol	Destroyed	Milk	Unaffected
Isopropyl Alcohol	Unaffected	Urine	Unaffected
Brake Fluid ( Auto)	Slight Softening	Whiskey	Unaffected
Skydrol 500 B Hydraulic Fluid	Unaffected	Vegetable Oil	Unaffected
Gasoline	Unaffected		

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# REZSTONE

Epoxy Floor Systems

TECHNICAL DATA

## 5042 100% SOLIDS SEMI-RIGID EPOXY

### Description:

Rez-Stone 5042 is a non-shrinking, 100% solids, semi-rigid epoxy. It is for use in control joints that are subject to heavy industrial use in factories and warehouse areas. Rez-Stone 5042 accommodates minimal movement while preventing deterioration of joint nosing from forklifts, dolly wheel traffic, and vibration. Rez-Stone 5042 can also be used as an effective membrane between moving substrates and non-flexible 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 contaminants
- ✓ Rez-Stone 5042 is not an expansion joint material

### Packaging:

Unit Size: 2 quart units, 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. For a clean finished edge, 2" masking tape is recommended.

### Mixing:

Mix Ratio: 1 Part 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 Part A (resin) component before blending. 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:

After proper mixing, the material can be poured directly onto the prepared joint. With narrow joints, the mixed material can be placed into a caulk gun and then applied into the prepared joint. Best practice is to fill joint full depth.

### 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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**5042 TYPICAL PROPERTIES AND SPECIFICATIONS**

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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 one year 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

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# REZSTONE

Epoxy Floor Systems

**TECHNICAL DATA**

## 2500 EPOXY PATCH KIT 2501 FAST-SET PATCH KIT 2502 SEMI-RIGID PATCH KIT

### **Description:**

Rez-Stone 2500, 2501, and 22502 Epoxy Crack Repair Kits are premeasured, solvent-free, rapid-strength gaining materials. They are for 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 2500 & 2502 or 35°F for 2501
- ✓ 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 contaminants 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 ensure 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 affect 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 2500 and 2502 may be coated over directly. Rez-Stone 2501 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**

	<b>2500</b>	<b>2501</b>	<b>2502</b>
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**

Temperature	2500 & 2602		2501
	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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# REZSTONE

Epoxy Floor Systems

**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 for 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 contaminants 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 ensure 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 affect 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. Rez-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**

	<b>2610</b>	<b>2611</b>	<b>2612</b>
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**

	<b>2610 &amp; 2612</b>	<b>2611</b>
<b>Temperature</b>	<b>Pot Life</b>	<b>Truck Traffic</b>
40°F	Not Recommended	65 minutes/20 hours
50°F	60 minutes	20 hours
60°F	40 minutes	10 hours
70°F	25 minutes	8 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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# REZSTONE

Epoxy Floor Systems

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, has low-foaming properties, and free-rising action.

**Recommended for:**

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

**Surface 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 (13 oz. per gallon) with water. Apply with an automatic scrubber, soft brushes, or carbon 3M Pads. 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 pick-up.

**Safety Precautions:**

Severe eye and skin irritant; avoid contact. Vapors are harmful; do not inhale. 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 (Glycoether)
Appearance	Thin Clear Liquid
Viscosity	Water Thin
pH @ 100%	13.3-13.9
pH @ 10%	12.4-13.0
Alkali as Na <sub>2</sub> O	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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