



# Spray Stone System



Tech Data  
Sheets





## Technical Data Sheet

### RZ Spray Stone

#### Description

RZ Spray Stone is a spray applied polymer modified concrete overlay system. The uniquely natural texture and look comes from a spray stacking technique especially created for this system. The finished application of RZ Spray Stone will leave you with an ultra-thin and extremely durable concrete topping.

#### Product Benefits

- Just add water formulation
- Excellent abrasion and slip resistant decorative coating
- Compressive strength of 6,000 PSI
- 10 Standard colors for blending

#### Pre-Application

- Prepare concrete surface for RZ Spray Stone by making sure it is clean, porous, and free of any bond breaking contaminants.
- Tape and paper any surfaces that the RZ Spray Stone is not desired to adhere to.
- Make sure you have all the necessary tinted powder bags for the desired color blend.
- Prime the clean dry surface with RZ Universal Primer by dip and roll method or by spray backroll method.
- While the primer is still tacky begin the RZ Spray Stone spray system steps.

Note: Red Zone Concrete Coatings adheres to the International Concrete Repair Institute (ICRI) Concrete Surface Profile (CSP) standards for specifying finished surface roughness prior to applying RZ Spray Stone. For proper adhesion, the concrete must be a minimum #2 according to the ICRI CSP chart. Contact the ICRI at [www.ICRI.org](http://www.ICRI.org) or Red Zone Concrete Coatings at [www.redzonecc.com](http://www.redzonecc.com) for more information on these surface profiles.

#### Mixing RZ Spray Stone

1. Mix 7 to 7.5 qts of water with 45 pound bag of RZ Spray Stone Powder.
2. Allow the mixed material to hydrate for 3 – 5 minutes, allowing a false set to occur. If needed mix again and add more water to achieve the desired consistency.



#### Spray Coats

RZ Spray Stone is a multi layer textured system generated by stacking different colors using a hopper gun and a fine spray pattern. Each layer is a new color. Refer to the Blend Color Table for color reference.

##### Layer 1 "Base"

1. Apply this layer by hopper gun or roller. Make sure the color used matches the "Base" color for your chosen color blend.
2. Coverage should be 100%.

##### Layer 2 "Spray 1" and Layer 3 "Spray 2"

1. Spray this second and third color with a hopper gun using the smallest setting. Coverage should be 65% – 75%.

##### Layer 4 "Splatter 1" and Layer 5 "Splatter 2"

1. Spray this fourth and fifth color with a hopper gun using the smallest setting. Coverage should be 15%–25%

#### Sealing

1. Sealing should be done as soon as possible after the surface has completely dried. (approx 12 hours)
2. Once RZ Spray Stone has cured for approximately 12 hours, apply 2 coats of sealer.

**LIGHT SPARKLE:** Do not add the sparkle additive in the first coat of sealer. Roll on the first coat of sealer. Allow the first coat to dry. Add sparkle additive to the second coat of sealer and mix to disperse the sparkle. The sparkle additive will settle, so re-mixing is necessary. Roll on the second coat of sealer.

**HEAVY SPARKLE:** Add sparkle additive to the sealer container and slowly mix to disperse the sparkle. Roll on sealer. The sparkle additive will settle, so re-mixing is necessary. Once first coat of sealer is dry, re-mix the sealer to disperse the sparkle and apply a second coat evenly over the entire surface.





## Technical Data Sheet

### RZ Spray Stone

#### Shelf Life and Storage

**RZ Spray Stone Powder** has a shelf life of approximately 24 months. Store in a cool, dry environment.

**RZ Universal Primer** has a shelf life of approximately 60 months. Should be stored indoors and above freezing temperatures. If it freezes, discard.

**RZ Matte Sealer** has a shelf life of approximately 24 months. Store in a cool, dry environment.

#### Packaged as a Kit which includes

1. RZ Spray Stone Powder comes in 45 pound bags.
2. RZ Universal Primer comes in 5 gallon pails
3. RZ Matte Sealer comes in 5 gallon pails

#### Coverage

RZ Universal Primer: 1200 – 1500 sqft per 5 gallon pail

Coverage per 50 pound bag:

Base – 350 – 400 sqft

Spray 1 – 450 – 500 sqft

Spray 2 – 450 – 500 sqft

Splatter 1 – 750 – 800 sqft

Splatter 2 – 750 – 800 sqft

RZ Matte Sealer – 600 – 800 sqft

#### Surface Protection and Maintenance

All installations should be maintained on a routine basis with the use of Red Zone Concrete Coatings maintenance products to ensure the preservation of a high-quality, long-lasting surface.

Maintenance schedules will vary depending on a number of factors, including volume and intensity of traffic, ultraviolet light exposure, geographical location and weather conditions.

Resealing will be required periodically (2 – 4 years), depending on the amount of foot traffic. As with any other surface treatment, the lifetime of this product is dependent on the care it is given.

The use of a qualified flooring maintenance contractor is recommended for resealing, especially in commercial applications. Please refer to the corresponding SDS for hazard-related information.

#### Product Handling

For complete instructions on handling and use, consult the corresponding Safety Data Sheet before using product.

#### Technical Data

**Bond Strength** .....Range: 414–466 PSI (ASTM D4541)  
**Compressive Strength** .....**7-day cure:** 6,225 PSI (ASTM C579)  
**28-day cure:** 6,622 PSI

**Abrasion Resistance** .....1,000 cycles, H-22 calibrate wheels – average depth of wear: 24 mils (roughly the equivalent to 5,000 PSI concrete in accordance with ASTM C501)

**Weathering** .....After 31 cycles (5,208 hours), no sign of peeling, chalking, blistering, loss of adhesion, fading or algae growth (ASTM G43 – modified to include freeze-thaw cycle)

**Smoke/Toxic Fume Emission** .....Negligible emission (British Standard 6853)

**Skid Resistance** .....Dry: 65, Wet: 58 (British Pendulum Test)

#### Limitations and Precautions

- RZ Spray Stone will not properly bond to wet or damp concrete.
- RZ Spray Stone will not adhere properly to salt-damaged concrete (i.e. salt-finished surfaces or de-icing salt surfaces).
- RZ Spray Stone will not adhere to standing oil or grease.
- Certain aggressive stains, such as hydraulic fluids, proteins and animal waste, may appear through the topping as “shadowing” on the finished surface. Any of these materials found on the substrate should be cleaned with an appropriate cleaner and then sealed with a water-based epoxy.
- If heavy adhesive tapes (such as duct tape) are left on a sealed RZ Spray Stone surface over an extended period of time, a chemical “weld” will be created between the tape and the RZ Spray Stone. If this happens, the RZ Spray Stone may be subject to delamination.
- Do not allow water on the surface until RZ Spray Stone has completely cured. Excessive water before sufficient cure will affect bond and durability.

#### Warranty

RZ Spray Stone System a proprietary product, is warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. Seller's and manufacturer's obligation under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective. The user assumes all other risks and liabilities resulting from use of this product. If you have any questions, please contact Red Zone Concrete Coatings. [www.RedZonecc.com](http://www.RedZonecc.com)

\*For complete information on all Red Zone Concrete Coatings products—including product information catalogs, product brochures, color charts, technical specifications, sales aids and more—contact Red Zone Concrete Coatings, Inc.





## Technical Data Sheet

### RZ Universal Primer

#### Description

RZ Universal Primer is a multipurpose product, formulated for use as a bonding agent when pouring new concrete over existing concrete, and also as an admixture for all types of cementitious structural repairs and resurfacing projects. When RZ Universal Primer is mixed with cement and aggregates, it will create a tenacious bond to any structurally sound cementitious substrate. RZ Universal Primer is used for structural repairs as well as thin-set resurfacing.

#### Product Benefits

- Co-adhesive Bonding
- Multi-Purpose
- Ready-Mixed
- Easy to Use

#### Product Data

- Packaging: 5 Gallon Pail
- Appearance: Milky White Liquid
- VOC Content: < 100 g/liter
- Coverage: 1200 – 1500 sqft

Coverage rates vary depending on mixing ratio, equipment, surface porosity, etc.

#### Surface Preparation

- Prepare concrete surface for the application of RZ Universal Primer by making sure it is clean, porous, and free of any bond breaking contaminants.
- Tape and paper any surfaces that the RZ Universal Primer is not desired to adhere to.

Note: Red Zone Concrete Coatings adheres to the International Concrete Repair Institute (ICRI) Concrete Surface Profile (CSP) standards for specifying finished surface roughness prior to applying Red Zone Concrete Coatings. For proper adhesion, the concrete must be a minimum #2 according to the ICRI CSP chart. Contact the ICRI at [www.ICRI.org](http://www.ICRI.org) or Red Zone Concrete Coatings for more information on these surface profiles.

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#### Mixing RZ Universal Primer

- **For use as a Bonding Agent:** Mix well using a drill and paddle mixer attachment, then prime surface by sprayer, brush or broom.
- **For use as an Admixture:** Mix well using a drill and paddle mixer attachment, then add desired amount of RZ Universal Primer to cement and sand mixture in place of water (stone aggregate may be used depending on the depth of the patch or fill required).

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#### Application

When using RZ Universal Primer to bond cementitious products, such as a concrete overlays, thoroughly mix RZ Universal Primer and spray onto the surface using a hand-held pump-type sprayer or RZ Universal Primer must be wet during the installation of the overlay material to ensure maximum adhesion. Do not let RZ Universal Primer dry during the overlay installation, as it may create a bond-breaker.

RZ Universal Primer should always be in a “wet” stage when bonding any cementitious mixtures. When using RZ Universal Primer as a primer for paints and sealers, it must be completely dry before application.

#### Shelf Life and Storage

RZ Universal Primer has a shelf life of 5 years when properly stored, sealed and unopened. Store in a cool, dry place. Keep from moisture and keep from freezing.

#### Product Handling

For complete instructions on handling and use, consult the corresponding Safety Data Sheet before using product.

#### Warranty

RZ Spray Stone System, a proprietary product, is warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. Seller's and manufacturer's obligation under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective. The user assumes all other risks and liabilities resulting from use of this product. If you have any questions, please contact Red Zone Concrete Coatings. [www.RedZonecc.com](http://www.RedZonecc.com)





## Technical Data Sheet

### RZ Spray Stone Base, Spray and Splatter Coats

#### Description

RZ Spray Stone Powder Mix is the foundation of the RZ Spray Stone System.

#### Product Benefits

- Just add water formulation
- Excellent abrasion resistance
- Compressive strength of 6,000 PSI
- 10 Standard colors for blending
- Great Slip resistant decorative coating

#### Coverage

Coverage per 45 pound bag:

Base – 350 – 400 sqft

Spray 1 – 450 – 500 sqft

Spray 2 – 450 – 500 sqft

Splatter 1 – 750 – 800 sqft

Splatter 2 – 750 – 800 sqft

#### Packaged 50 lbs

1. RZ Spray Stone Powder comes in tinted 50 pound bags.

#### Technical Data

**Bond Strength** .....Range: 414–466 PSI (ASTM D4541)

**Compressive Strength**..... **7-day cure:** 6,225 PSI (ASTM C579)

**28-day cure:** 6,622 PSI

**Abrasion Resistance**.....1,000 cycles, H-22 calibrate wheels – average depth of wear: 24 mils (roughly the equivalent to 5,000 PSI concrete in accordance with ASTM C501)

**Weathering** .....After 31 cycles (5,208 hours), no sign of peeling, chalking, blistering, loss of adhesion, fading or algae growth (ASTM G43 – modified to include freeze-thaw cycle)

**Smoke/Toxic Fume Emission** .....Negligible emission (British Standard 6853)

**Skid Resistance** .....Dry: 65, Wet: 58 (British Pendulum Test)



#### Shelf Life and Storage

RZ Spray Stone Base Mix powder has a shelf life of approximately 24 months. Store in a cool, dry environment.

#### Product Handling

For complete instructions on handling and use, consult the corresponding Safety Data Sheet before using product.

#### Warranty

RZ Spray Stone System, a proprietary product, is warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. Seller's and manufacturer's obligation under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective. The user assumes all other risks and liabilities resulting from use of this product. If you have any questions, please contact Red Zone Concrete Coatings. [www.RedZonecc.com](http://www.RedZonecc.com)

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## Technical Data Sheet

### RZ Matte Sealer

#### Description

Red Zone Matte Sealer is a tough, pure acrylic concrete sealer in a solvent base. Designed to protect and beautify concrete with a durable matte clear coating. Red Zone Matte Sealer is non-yellowing to preserve the appearance of all types of decorative concrete.

#### Product Benefits

- Tough and Durable
- Pure Acrylic
- Matte Finish
- Non-Yellowing
- Solvent-Based

#### Coverage

Coverage per 5 gallon pail:  
Spray and Back roll – 600 – 800 sqft  
Dip and roll – 600 – 800 sqft

#### Packaged

5 Gallon Pail

#### Surface Preparation

Clean dirt and other contaminants from the surface and ensure the surface is dry. Apply only when surface and air temperatures are above 50° F and below 90° F. Do not apply to excessively hot surfaces as rapid drying may cause bubbles to form.

#### Application

Do not pour directly from can to concrete. Apply evenly from can or other metal container with appropriate roller or spray gun. If spraying, use a solvent resistant sprayer holding tip no more than 8" from surface during application. Back rolling is recommended while spraying. Clean up immediately with Xylene or Acetone. Foot traffic should be avoided for 4 hours. Vehicle traffic should be avoided for 48 hours. Cooler temperatures or increased humidity will slow the dry time.



#### Technical Data

Federal.....<700 VOC Compliant  
<700g/L Flash point: 106°F

#### HMIS

|              |                |
|--------------|----------------|
| Health 2     | Flammability 2 |
| Reactivity 0 | Protection B   |

Meets or Exceeds: ASTM C-309, Type I Class A and B; ASTM C-1315-11; AASHTO Spec M-148; EPA 40 CFR Part D

#### Shelf Life and Storage

Red Zone Matte Sealer has a shelf life of approximately 24 months. Store in a cool, dry environment.

#### Product Handling

For complete instructions on handling and use, consult the corresponding Safety Data Sheet before using product.

#### Warranty

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