



Spray Stone System



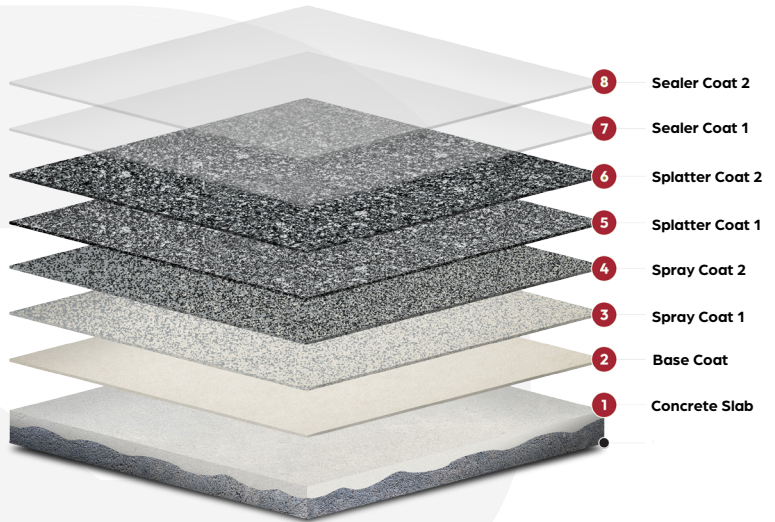
Transform Outdoor Spaces with Red Zone Concrete Coatings

Revitalize your outdoor spaces with RZ Spray Stone—where versatility meets durability, and creativity knows no limits.

Spray Stone

RZ Spray Stone System is a revolutionary concrete overlay system designed to revitalize outdoor surfaces effortlessly. Say goodbye to excavation and hello to a durable, decorative solution that transforms existing surfaces with style.

Featuring a wide spectrum of customizable colors, RZ Spray Stone System lets you craft unique designs with a natural, slip-resistant, and ultra-thin finish. Its advanced formulation ensures lasting performance, ideal for residential, commercial, and industrial applications. Perfect for pool decks, walkways, terraces, patios, and more, RZ Spray Stone bonds seamlessly to various substrates, including concrete, wood, metal, plastic, and sheet rock. Experience modern aesthetics combined with resilience and character—RZ Spray Stone is your solution for vibrant, enduring outdoor spaces.





Spray Stone System



Brochure



Contractor Sell Sheet

About Red Zone Spray Stone System

Transform outdoor spaces with cutting-edge design, unparalleled durability, and endless customization.

RZ Spray Stone is an ultra-thin architectural concrete spray texture composed of a liquid primer and a specially formulated tinted cementitious powder for an easy-to-use decorative concrete overlay.

Designed for versatility, RZ Spray Stone bonds tenaciously to virtually any substrate, including concrete, wood, metal, plastic, and sheetrock.

It delivers a beautiful, robust, colorful, and modern cementitious finish that enhances depth and provides slip-resistance. Perfect for revitalizing patios, pool decks, driveways, walkways, and more, RZ Spray Stone is the ideal solution for adding both style and functionality to any outdoor space.

Contractor and Customer Features :

- Uniquely Natural Texture
- Ultra-Thin Finish
- Extremely Durable Topping
- Easy to Use – Just Add Water!
- Bonds to Multiple Substrates
- Compressive strength of 6,000 PSI.
- Slip-Resistant
- Cutting-Edge Design
- Effortlessly upgrade your customers outdoor surfaces.
- Refresh your space while solving common outdoor surface challenges.
- Minimal Maintenance Needed
- Achieve a style that reflects your customers personality.



White Birch



**Walnut
& Teak**



**White Birch &
Gray Poplar**





Maintenance and Proper Care for Finished Systems

Routine Maintenance

Maintain all installations on a regular schedule using RZ maintenance products to ensure a high-quality, long-lasting surface. Frequency depends on:

- Volume and intensity of traffic
- Ultraviolet (UV) light exposure
- Geographical location
- Weather conditions

Resealing Requirements

- Periodic resealing (2 – 4 yrs) will be necessary, especially for high-traffic areas. The lifetime of the surface depends on the care it receives.
- For commercial applications, hiring a qualified flooring maintenance contractor is recommended for resealing.

Cleaning Guidelines

1. Impact of Cleaning Products and Techniques

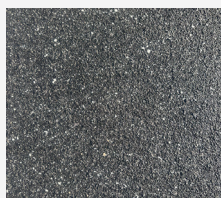
Cleaning products, disinfecting compounds, techniques, and equipment can affect the surface's color, gloss, texture, and performance.

2. Test Before Cleaning

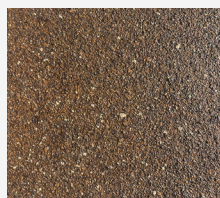
Always test cleaning products and equipment on a small, inconspicuous area before applying them to the entire surface.



Ash



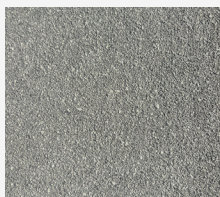
Black Oak



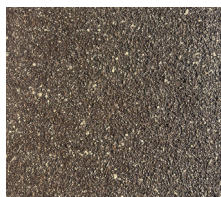
Cedar



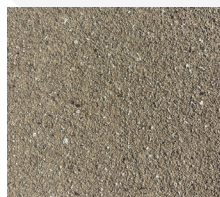
Cherrywood



Gray Poplar



Mahogany



Pinewood



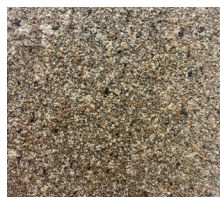
Redwood



Shagbark Hickory



Teak



Walnut



White Birch





Customer Guide

Transform Outdoor Spaces with Red Zone Concrete Coatings

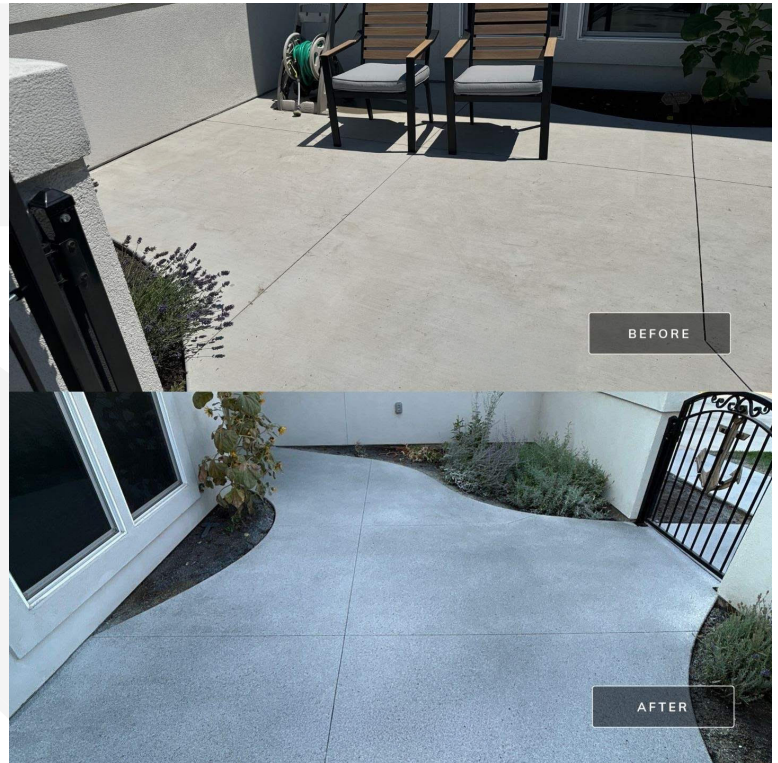
Revitalize your outdoor spaces with RZ Spray Stone—where versatility meets durability, and creativity knows no limits.

Spray Stone

RZ Spray Stone System is a revolutionary concrete overlay system designed to revitalize outdoor surfaces effortlessly. Say goodbye to excavation and hello to a durable, decorative solution that transforms existing surfaces with style.

Featuring a wide spectrum of customizable colors, RZ Spray Stone System lets you craft unique designs with a natural, slip-resistant, and ultra-thin finish. Its advanced formulation ensures lasting performance, ideal for residential, commercial, and industrial applications.

Perfect for pool decks, walkways, terraces, patios, and more, RZ Spray Stone bonds seamlessly to various substrates, including concrete, wood, metal, plastic, and sheet rock. Experience modern aesthetics combined with resilience and character. RZ Spray Stone is your solution for vibrant, enduring outdoor spaces.



Cutting-Edge Design and UnParalleled Durability

- Effortlessly upgrade your outdoor surfaces.
- No excavation required for pre-existing surfaces.
- Engineered for outdoor durability with excellent slip resistant finish.
- Unlimited color combination possibilities.
- Refresh your space while solving common outdoor surface challenges.
- Achieve a style that reflects your personality.





Maintenance and Proper Care for Finished Systems

Routine Maintenance

- Maintain all installations on a regular schedule using RZ maintenance products to ensure a high-quality, long-lasting surface. Maintenance frequency will depend on factors such as:
 - Volume and intensity of traffic
 - Ultraviolet (UV) light exposure
 - Geographical location
 - Weather conditions

Resealing Requirements

- Periodic resealing will be necessary, every 2 -4 years based on traffic and UV exposure. The lifetime of the surface depends on the care it receives.
- For commercial applications, hiring a qualified flooring maintenance contractor is recommended for resealing.

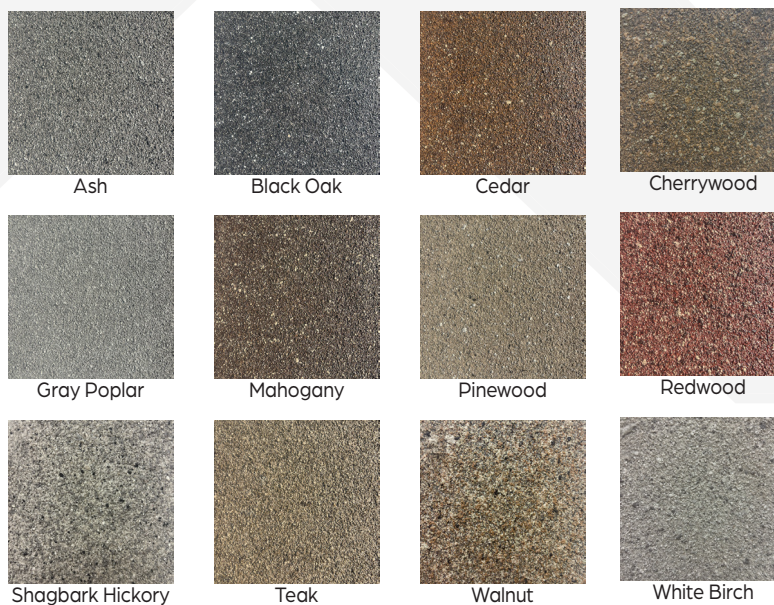
Cleaning Guidelines

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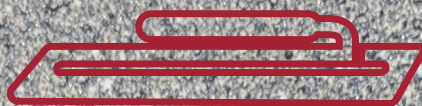
2. Test Before Cleaning

- Always test cleaning products and equipment on a small, inconspicuous area before applying them to the entire surface.





Spray Stone System



Spray Stone Kit



This System Includes



Red Zone Universal Primer

RZ Universal Primer is a liquid primer specifically designed to ensure strong adhesion between concrete substrates and Red Zone's Spray Stone base coat. This essential step prepares the surface for a durable and long-lasting finish, ensuring optimal performance and bonding.

Red Zone Spray Stone Base Coat

RZ Spray Stone Base Coat is the first layer applied after the RZ Universal Primer, designed to fill and smooth out imperfections on the surface. This critical layer serves as the foundation, providing the first undertone of color and ensuring a flawless, durable, and visually appealing finish.

Red Zone Spray Stone Spray Coat (1 & 2)

RZ Spray Stone Spray Coats are applied after the base coat, serving as the first and second layers of color to form the core of your design. These coats are essential for achieving the desired aesthetic, adding depth and vibrancy to your project.

Red Zone Spray Stone Splatter Coat (1 & 2)

RZ Spray Stone Splatter Coats are applied after the Spray Coats, serving as the final accent layers to enhance and complement your primary colors. These coats add depth, texture, and visual interest, completing the design with a professional and artistic finish.

Red Zone Matte Sealer

RZ Matte Sealer is a UV-resistant, single-component sealer and economical finish designed for durability and longevity. While matte is recommended, we also have Clear Gloss and Clear Satin finishes. RZ Sealers provide a protective layer while enhancing the appearance of your project with a sleek and polished look.

Red Zone Glitter

RZ Glitter is an optional additive for the finishing clear coat, designed to add a touch of sparkle and elegance to your final project.



Spray Stone System



Ash



Black Oak



Cedar



Cherrywood



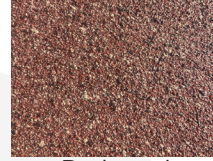
Gray Poplar



Mahogany



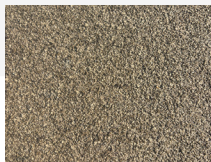
Pinewood



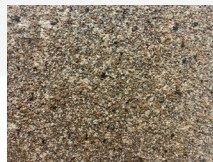
Redwood



Shagbark Hickory



Teak



Walnut



White Birch

Blend (45 lb bag)	Step 1: (100%)	Step 2: (65% – 75%)	Step 3: (65% – 75%)	Step 4: (15% – 25%)	Step 5: (15% – 25%)
Ash	Dark Gray	White	Dark Gray	Black	White
Black Oak	Black	Dark Gray	Black	White	Black
Cedar	Tan	Beige	Tan	Dark Brown	Light Tan
Cherrywood	Adobe	Dark Brown	Adobe	Light Tan	Dark Brown
Gray Poplar	White	Medium Gray	White	Dark Gray	White
Mahogany	Dark Brown	Brown	Dark Brown	Light Tan	Dark Brown
Pinewood	Beige	Light Tan	Beige	White	Dark Brown
Redwood	Brick	Beige	Brick	Light Tan	Dark Brown
Shagbark Hickory	White	Dark Gray	Dark Gray	Black	White
Teak	White	Tan	Light Tan	Medium Gray	Tan
Walnut	Dark Brown	Beige	Adobe	Light Tan	Dark Brown
White Birch	White	Light Gray	White	Medium Gray	White
Coverage per step	~350 – 400 sq/ft	~450 – 500 sq/ft	~450 – 500 sq/ft	~750 – 800 sq/ft	~750 – 800 sq/ft





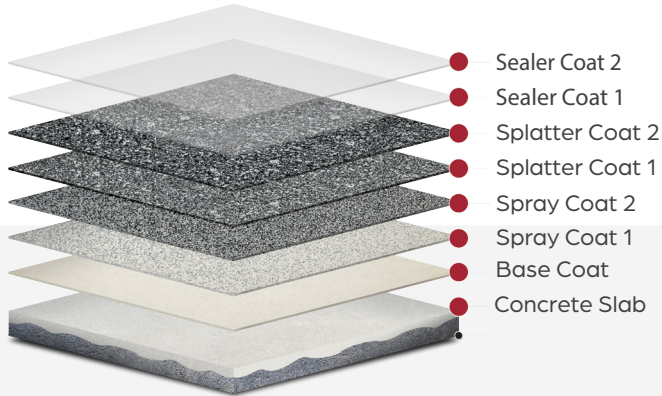
Spray Stone System



Color Chart



COLOR CHART SPRAY STONE



RZ Spray Stone System is an ultra-thin architectural concrete spray texture consisting of a liquid primer and a specialty formulated tinted cementitious powder, and an easy-to-use decorative concrete overlay.

RZ Spray Stone tenaciously bonds to virtually any substrate, including concrete, wood, metal, plastic and sheet rock, delivering a beautiful, robust, colorful and modern cementitious finish to add depth and slip-resistance to any patio, pool deck, driveway, walkway and more.



Ash



Black Oak



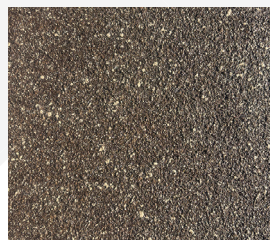
Cedar



Cherrywood



Gray Poplar



Mahogany



Pinewood



Redwood



Shagbark Hickory



Teak



Walnut



White Birch





Spray Stone System



Application Guide



Red Zone Spray Stone: Multi Layered Textured System

RZ Spray Stone is a multi-layer textured system created by layering different colors using a hopper gun with a fine spray pattern. Each layer is applied individually, allowing the previous color to dry before the next is added. This process enables unmatched creativity and originality, resulting in a unique and visually stunning finish.

Note:

Red Zone Concrete Coatings follows the International Concrete Repair Institute (ICRI) Concrete Surface Profile (CSP) standards to ensure the proper surface roughness before applying RZ Spray Stone. For optimal adhesion, the concrete must meet a minimum CSP #2 as per the ICRI CSP chart. For more information about these surface profiles, visit www.ICRI.org or contact Red Zone Concrete Coatings directly.

Instructions for Spray Stone

Surface Preparation

1. Prepare the Surface
 - Ensure the concrete surface is clean, porous, and free of any bond-breaking contaminants.
2. Protect Surrounding Areas
 - Tape and cover any surfaces where RZ Spray Stone is not desired.
3. Gather Materials
 - Confirm you have all the necessary bags of tinted powder for the desired color blend.
4. Prime the Surface
 - Apply RZ Universal Primer to the clean, dry surface using a dip and roll method with a 3/8" to 1/2" nap roller.
5. Apply the Base Coat
 - Begin applying the RZ Spray Stone Base Coat while the primer is slightly tacky.

Material Preparation and Application

Layer 1: Base Coat

1. Combine Ingredients
 - Mix 7 to 7.5 quarts of water with a 45-pound bag of RZ Spray Stone powder in a clean mixing container.
2. Hydrate the Mix
 - Allow the mixture to hydrate for 3 – 5 minutes to allow for false set then remix.
3. Adjust Consistency
 - Mix again and gradually add more water until the desired consistency is achieved.
4. Application Methods
 - Apply the base coat using a hopper gun, magic trowel, or roller.
 - Ensure the color used matches the designated "Base" color for your chosen color blend.
5. Coverage
 - Achieve 100% coverage for a uniform foundation.





Layers 2 and 3: Spray Coat

Mixing and Application Instructions for Spray Coats 1 & 2

1. Combine Ingredients
 - Mix 5.5 to 6.5 quarts of water with a 45-pound bag of RZ Spray Stone Spray Coat 1 in a clean mixing container.
2. Hydrate the Mix
 - Allow the mixture to hydrate for 3 – 5 minutes to allow for the false set then remix.
3. Adjust Consistency
 - Mix again and gradually add more water until the desired consistency is achieved.
4. Application Methods
 - Apply Spray Coat using a hopper gun on the small to medium setting.
 - Ensure the color matches the designated "Spray Coat 1" or "Spray Coat 2" for your chosen blend and step.
5. Coverage
 - Coverage should be 65% – 75%

Repeat instructions for each coat

Layer 4 and 5: Splatter Coat

Mixing and Application Instructions for Splatter Coats 1 & 2

1. Combine Ingredients
 - Mix 5.5 to 6.5 quarts of water with a 45-pound bag of RZ Spray Stone Splatter Coat 1 in a clean mixing container.
2. Hydrate the Mix
 - Allow the mixture to hydrate for 3 – 5 minutes to allow for the false set then remix.
3. Adjust Consistency
 - Mix again and gradually add more water until the desired consistency is achieved.
4. Application Methods
 - Apply Splatter Coat 1 using a hopper gun using the smallest setting.
 - Ensure the color matches the designated "Splatter Coat 1" or "Splatter Coat 2" for your chosen color blend and step.
5. Coverage
 - Coverage should be 15% –25%

Repeat instructions for each coat

If the material needs to be re-wet after the initial mix, use RZ Universal Primer as the wetting agent. This ensures the material maintains its integrity and polymer loading

Layer 6: Sealer/Clear Coat

General Instructions

1. Curing Time
 - Allow the surface to cure for 12 hours before applying the sealer.
 - If water contacts the surface before sealing, a white film may form. While this does not affect bond or durability, clean it off before sealing using a commercial cleaner/degreaser and a clear water rinse. Allow to dry completely.
2. Timing for Sealing
 - Apply sealer as soon as the surface is completely dry to ensure optimal adhesion.
3. Sealer Application
 - Once surface has cured for 12 hours, apply two coats of RZ Sealer for maximum protection and durability.





For Light Sparkle Finish

1. First Coat
 - Roll or spray on the first coat of sealer and allow it to dry completely (drying time depends on weather conditions).
 - Do not add sparkle additive to the first coat.
2. Second Coat with Sparkle
 - Add sparkle additive to the sealer container and mix slowly to disperse the sparkle evenly.
 - Re-mix the sealer between rolls to keep the sparkle distributed.
 - Apply the second coat of sealer evenly over the surface.
 - Sparkle and sealer can be applied using sprayer and backroll

For Heavy Sparkle Finish

1. First Coat with Sparkle
 - Add sparkle additive to the sealer container and mix slowly to disperse the sparkle.
 - Apply the first coat of sealer evenly. Re-mix the sealer as needed to keep the sparkle distributed during application.
2. Second Coat with Sparkle
 - Once the first coat is dry, re-mix the sealer to ensure the sparkle is evenly dispersed.
 - Apply the second coat of sealer evenly over the entire surface.

Routine Maintenance

- Maintain all installations on a regular schedule using Red Zone Concrete Coatings maintenance products to ensure a high-quality, long-lasting surface.
- Maintenance frequency will depend on factors such as:
 - Volume and intensity of traffic
 - Ultraviolet (UV) light exposure
 - Geographical location
 - Weather conditions

Resealing Requirements

- Periodic resealing will be necessary every 2 – 4 years based on amount of use.
- The lifetime of the surface depends on the care it receives.
- For commercial applications, hiring a qualified flooring maintenance contractor is recommended for resealing.

Cleaning Guidelines

1. Impact of Cleaning Products and Techniques
 - Cleaning products, disinfecting compounds, techniques, and equipment can affect the surface's color, gloss, texture, and performance.
2. Test Before Cleaning
 - Always test cleaning products and equipment on a small, inconspicuous area before applying them to the entire surface.





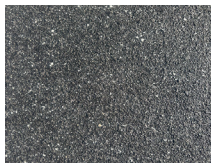
Spray Stone System



Reference Guide



Ash



Black Oak



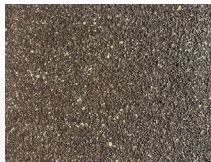
Cedar



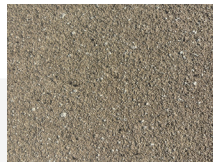
Cherrywood



Gray Poplar



Mahogany



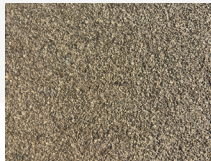
Pinewood



Redwood



Shagbark Hickory



Teak



Walnut



White Birch

Blend (45 lb bag)	Step 1: (100%)	Step 2: (65% – 75%)	Step 3: (65% – 75%)	Step 4: (15% – 25%)	Step 5: (15% – 25%)
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Black Oak	Black	Dark Gray	Black	White	Black
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Cherrywood	Adobe	Dark Brown	Adobe	Light Tan	Dark Brown
Gray Poplar	White	Medium Gray	White	Dark Gray	White
Mahogany	Dark Brown	Brown	Dark Brown	Light Tan	Dark Brown
Pinewood	Beige	Light Tan	Beige	White	Dark Brown
Redwood	Brick	Beige	Brick	Light Tan	Dark Brown
Shagbark Hickory	White	Dark Gray	Dark Gray	Black	White
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Coverage per step	~350 – 400 sq/ft	~450 – 500 sq/ft	~450 – 500 sq/ft	~750 – 800 sq/ft	~750 – 800 sq/ft



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
- 12 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 or Red Zone Concrete Coatings at 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 StrengthRange: 414–466 PSI (ASTM D4541)
Compressive Strength**7-day cure:** 6,225 PSI (ASTM C579)
28-day cure: 6,622 PSI

Abrasion Resistance1,000 cycles, H-22 calibrate wheels – average depth of wear: 24 mils (roughly the equivalent to 5,000 PSI concrete in accordance with ASTM C501)

WeatheringAfter 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 EmissionNegligible emission (British Standard 6853)

Skid ResistanceDry: 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

*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 or Red Zone Concrete Coatings for more information on these surface profiles.

www.RedZoneCC.com

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).

*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.



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





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
- 12 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 StrengthRange: 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)

WeatheringAfter 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 EmissionNegligible emission (British Standard 6853)

Skid ResistanceDry: 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

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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

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

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Spray Stone System



Safety Data



SECTION 1) CHEMICAL PRODUCT AND MANUFACTURERS IDENTIFICATION

Product ID:	RZ-UP-80-11615-8303MVB-F
Product Name:	Red Zone Universal Primer
Revision Date:	11/09/2015
Version:	2.0
Supplier Name:	GBR31
Emergency Phone:	Chemtrec (CCN1217): (800) 424 9300 (account:CCN1217)
Information Phone Number:	(214) 412-9898 E-mail: Support@RedZoneCC.com
Product/Recommended Uses:	For Further Information, Refer to the Product Technical Data Sheet.)

SECTION 2) HAZARDS IDENTIFICATION

Classification:	Not a Hazardous Substance or Mixture
Signal Word:	N/A
Hazardous Statements – Health and Environmental:	N/A
Precautionary Statements –	
General, Prevention, Response, Storage and Disposal:	N/A
Carcinogenicity:	

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Appearance:	Liquid
Color:	White
Odor:	Sweet

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture:	Mixture
Hazardous Ingredients:	Contains no hazardous ingredients according to the GHS.

SECTION 4) FIRST AID MEASURES

Inhalation:	Remove source of exposure or move person to fresh air and keep comfortable for breathing. If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.
Skin Contact:	Rinse/wash with lukewarm, gently flowing water and mild soap for 15–20 minutes or until product is removed. If skin irritation occurs or you feel unwell: get medical advice/attention. If exposed or concerned: get medical advice.
Eye Contact:	Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses. Continue rinsing for 15–20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.
Ingestion:	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position. Give 1 or 2 glasses of milk or water to drink and refer person to medical personnel. Do not give anything by mouth to an unconscious person.





SECTION 5) FIRE-FIGHTING PROCEDURES

Suitable Extinguishing Media:	Not combustible. Use measure that are appropriate to local circumstances and the surrounding environment. This product is an aqueous mixture that will not burn. Dried product film will burn in a fire.
Specific Hazards in Case of Fire:	Cool closed containers exposed to fire with water spray.
Fire-fighting Procedures:	N/A
Special Protective Actions:	N/A

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure:	N/A
Recommended Equipment:	N/A
Personal Precautions:	Refer to protective measures listed in Sections 7 and 8.
Environmental Precautions:	No special environmental precautions required. Prevent product form entering drains.
Methods and Materials for Containment and Cleaning up:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

SECTION 7) HANDLING AND STORAGE

General:	Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. Eyewash stations and showers should be available in areas where this material is used and stored. Individuals with existing respiratory disease such as chronic bronchitis, emphysema, or asthma should not be exposed.
Ventilation Requirements:	Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.
Storage Room Requirements:	Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous. Store in tightly sealed containers to protect from atmospheric moisture. Store in a cool dry area. Store liquid in containers above ground and surround by dikes to contain spills or leaks. Do not Freeze.
Storage Temperature:	>=40 0F





SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

Skin Protection:

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly dispose of contaminated material, which cannot be decontaminated.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. Use either an atmosphere supplying respirator or an air-purifying respirator for organic vapors.

Appropriate Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

None of the chemicals in Section 3 are regulated under "OSHA_Tables_Z1_Z2_Z3", "OSHA_Carcinogen - OSHA Carcinogen", "OSHAtpm", "OSHAatmg", "OSHAspm", "OSHAsmg", "ACGIHtpm", "ACGIHtmg", "ACGIHspm", "ACGIHsmg", "nioshtpm", "nioshtmg", "nioshsppm", "nioshsmg", "NIOSH_carcinogen", "OSHA_SkinDesignation", "ACGIH_carcinogen", "ACGIH_TLV_Basis", "ACGIH_Notations"

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Milky White	Water Solubility	Dispersible	Freezing Point	32 °F
Density	8.70–9.0 lb/gal	Flammability	Not Flammable	Melting Point	32 °F
Specific Gravity	1.07	Flash Point Symbol	N.A.	Low Boiling Point	212 °C/414 °F
Solid Content, % weight	53–56	Flash Point	N.A.	High Boiling Point	N.A.
VOC % by weight	0.16	Viscosity	1,900–2,800 cP	Auto Ignition Temp	N.A.
Appearance	Clear Liquid	Lower Explosion Level	N.A.	Decomposition Pt	N.A.
Odor Threshold	N.A.	Upper Explosion Level	N.A.	Evaporation Rate	N.A.
Odor Description	Sweet	Vapor Pressure	N.A.	Coefficient Water/Oil	N.A.
pH	4.0–6.0	Vapor Density	N.A.		

SECTION 10) REACTIVITY DATA

Stability:

Material is stable at standard temperature and pressure.

Conditions to Avoid:

N/A

Hazardous Reactions/Polymerization:

Hazardous polymerization does not occur.

Incompatible Materials:

N/A

Hazardous Decomposition Products:

Stable under normal conditions.





SECTION 11) TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation:	Repeated skin contact may cause a persistent irritation or dermatitis. May also aggravate an existing skin condition.
Serious Eye Damage/Irritation:	No data available
Carcinogenicity:	No data available
Respiratory/Skin Sensitization:	Exposure may cause mucous membrane and respiratory tract irritation, tightness of chest, headache, shortness of breath, and a dry cough. The effects of acute exposure may be delayed in onset up to 12-24 hours. Repeated exposure above current occupational limits may cause an allergic sensitization of the respiratory tract. This is characterized by an asthma-like response upon re-exposure to the chemical. The symptoms may include coughing, wheezing, shortness of breath and chest tightness. May cause an allergic skin reaction. Acute toxicity estimate: > 5,000 mg/kg. Method: Calculation method.
Germ Cell Mutagenicity:	No data available.
Reproductive Toxicity:	No data available
Specific Target Organ Toxicity	
– Single Exposure:	No data available.
– Repeated Exposure:	Repeated exposure generally aggravates the following medical conditions : Cardiovascular disease and Chronic respiratory disease.
Aspiration Hazard:	No data available.
Acute Toxicity:	Acute toxicity estimate: > 5,000 mg/kg. Method: Calculation method.

SECTION 12) ECOLOGICAL INFORMATION

Toxicity:	No data available.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.
Other Adverse Effects:	No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal:	To the best of our knowledge, this product does not meet the hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincia authorities for more restrictive requirements. The hazard and precautionary statements displayed on the label also apply to any residues left in the container.
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SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information:	Not regulated
IMDG Information:	N/A
IATA Information:	Not regulated





SECTION 15) REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Listed on the DSL or NDSL
REACH	Not in compliance with the inventory
AICS	On the inventory or in compliance with the inventory
NZIoC	Not in compliance with the inventory
ENCS	On the inventory or in compliance with the inventory
KECI	On the inventory or in compliance with the inventory
PICCS	On the inventory or in compliance with the inventory
IECSC	On the inventory or in compliance with the inventory
TWINV	On the inventory or in compliance with the inventory
Inventories Legend:	TSCA (USA), DSL (Canada), REACH (Europe), AICS (Australia), NZIOIC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)
SARA 311/312 Hazards:	No SARA Hazards
SARA 302:	No chemicals in this material are subject to the reporting requirements.
SARA 313:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimis) report.
Clean Air Act:	This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61)

SECTION 16) OTHER INFORMATION

OTHER INFORMATION:

N/A

GLOSSARY:

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; CA Prop65- California Proposition 65; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

DISCLAIMER:

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.





SECTION 1) CHEMICAL PRODUCT AND MANUFACTURERS IDENTIFICATION

Product ID: RZ-SSP-1981-11-D
Product Name: Red Zone Spray Stone Base, Spray, and Splatter Powder
Supplier Name: GBR31
Emergency Phone: Chemtrec (CCN1217): (800) 424-9300 (account:CCN1217)
Information Phone Number: (214) 412-9898 E-mail: Support@RedZoneCC.com
Product/Recommended Uses: For Further Information, Refer to the Product Technical Data Sheet.)

SECTION 2) HAZARDS IDENTIFICATION

HAZCOM Standard Status: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), the SDS contains valuable information critical to the safe handling and proper use of the product. The SDS should be retained and available for employees and other users of this product.

Physical State: Powder
Color: Various
Classification of the substance or mixture: Not classified
Signal Word: No signal word.
Hazard Statements: No known significant effects or hazards. Hazard Not Otherwise Classified (HNOC)
Precautionary statements: None known.
Prevention: Not applicable.
Response: Not applicable.

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS no.: 51274-00-1 EINECS No.: 257-098-5	Iron Oxide Yellow Pigment	0-100%
Cas No.: 1309-37-1 Einecs No.: 215-168-2	Iron Oxide Red Pigment	0-100%
Cas No.: 1317-61-9 EINECSNo.: 215-277-5	Iron Oxide Black Pigment	0-100%
Cas No.: 72608-12-9, 1317-65-3	Limestone	0-100%
CAS No.: 1317-60-8	Iron Oxide / Natural	0-100%

Chemical Characterization: Synthetic iron oxide $\text{Fe}_2\text{O}_3 \cdot \text{H}_2\text{O}$ (α -FeOOH), C. I. Pigment YELLOW 42 / $\text{Fe}_2\text{O}_3 \cdot \text{aH}_2\text{O}$, C. I. Pigment RED 101/ Fe_3O_4 , C. I. Pigment BLACK 11
Registration Number in REACH: 01-2119457554-33-0012/01-2119457614-35-0039/01-211945764628-0012
Substance/Mixture: Substance

SECTION 4) FIRST AID MEASURES

Description of first aid measures: Get medical attention if irritation occurs.
Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.
Inhalation: Move to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes.
Ingestion: Wash out mouth with water. Move to fresh air and keep at rest in a position comfortable for breathing. If swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.





SECTION 4) Continued

Potential acute health effects:

Eye Contact:

May cause mechanical irritation (abrasion).

Inhalation:

No known significant effects or critical hazards.

Skin Contact:

May cause mechanical irritation (abrasion).

Ingestion:

No known significant effects or critical hazards.

Over-exposure signs/symptoms:

Eye Contact/Inhalation/Skin Contact:

No specific data.

Ingestion:

No specific data.

Potential chronic health effects:

No known significant effects or critical hazards.

Notes to Physician:

Treat symptomatically. No specific treatment.

Protection of First-Aiders:

No special measures required.

SECTION 5) FIRE-FIGHTING PROCEDURES

Extinguishing media:

Suitable Extinguishing Media:

Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable Extinguishing Media:

None known.

Specific Hazards arising from the chemical:

No specific fire or explosion hazard.

Hazardous thermal decomposition products:

No specific data.

Special Protection Actions for Fire-Fighters:

Promptly isolate the scene, remove all persons from the vicinity. If there is a fire, no action shall be taken involving any personal risk or without suitable training.

Special Protective Equipment for Fire-Fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Put on appropriate personal protective equipment.

Environmental Precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and Materials for Containment and Cleaning up:

Move containers from spill area. Approach release from upwind. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.

Reference to other sections:

Section 1 for emergency contact. Section 13 for waste disposal. Prevent entry into sewers, water courses, or confined areas.





SECTION 7) HANDLING AND STORAGE

Handling:	Avoid breathing dust. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating and drinking. Put on appropriate personal protection equipment. Eating and drinking should be prohibited in areas where this material is handled and stored.
Storage:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers or liners may retain some product residues.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits:	No exposure limit value known.
Appropriate engineering controls:	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Personal protection:	
Hygiene measures:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Respiratory protection:	Dust-protection mask.
Skin protection:	Wear suitable protective clothing and gloves. Suitable protective footwear.
Eye/face protection:	If contact with product is possible, wear safety glasses with side shields.
Medical Surveillance:	Not available.

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid. (powder)
Color:	Various
Odor:	Odorless
Odor threshold:	Not available.
PH:	3-9
Boiling point:	Not available.
Melting point:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Explosion limits:	Not available.
Vapor pressure:	Not available.
Density:	Not available.
Specific gravity (Relative density):	Not available.
Solubility:	Not available.
Vapor density:	Not available.
Viscosity:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.





SECTION 10) REACTIVITY DATA

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability:	This product is stable.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No specific data.
Incompatible materials:	No specific data.
Hazardous decomposition:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11) TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure:	Dermal contact. Eye contact. Inhalation Ingestion.
Potential acute health effects:	
Eye contact:	May cause mechanical irritation (abrasion). Inhalation: No known significant effects or critical hazards. Skin contact: May cause mechanical irritation (abrasion). Ingestion: No known significant effects or critical hazards.
Symptoms related to the physical, chemical and toxicological characteristics:	
Inhalation:	Eye contact: No specific data.
Skin contact:	No specific data.
Ingestion:	No specific data.
Potential chronic health effects:	
Short term exposure/	
Potential immediate effects:	Not available.
Long term exposure:	Not available.
Potential delayed effects:	Not available.
General:	No known significant effects or critical hazards.
Carcinogenicity:	No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.
Teratogenicity:	No known significant effects or critical hazards.
Developmental effects:	No known significant effects or critical hazards.
Fertility effects:	No known significant effects or critical hazards.

Irritation/Corrosion

Product/Ingredient	Result	Species	Score	Exposure	Observation	Reversability
C.I Pigment Black 11	Skin- Erythema/Eschar	Rabbit	0	4 hours	8 Days	-
	Eyes-Cornea Opacity	Rabbit	0	192 hours 100ul	8 Days	Fully Reversible in 7 days or less
	Eyes-Iris Lesion	Rabbit	0	192 hours 100ul	8 Days	-
	Eyes-Redness Conjunctivae	Rabbit	0	192 hours 100ul	8 Days	Fully Reversible in 7 days or less





SECTION 11) CONTINUED

Information on toxicological effects Acute Toxicity:

Acute Toxicity:

Product/ Ingredient	Result	Species	Dose	Exposure	Test
C.I. Pigment Black 11	LD50 Oral	Rat-Male, Female	>5000 mg/kg	-	-
C.I. Pigment Yellow 42	LD50 Oral	Rat-Male	>10000 mg/kg	-	-
C.I. Pigment Yellow 42	LC50 Inhalation Dusts and Mists LC50 Inhalation Dusts and Mists	Rat	>95 g/m3	6 hrs	-
		Rat		2 weeks	
Iron(III) Oxide	LD50 Oral	Rat	>5000 mg	-	-
Iron(III) Oxide	LD50 Inhalation Dusts and mists	Rat	>210 g/m3	2 weeks	-
C.I. Pigment Red 101	No Specific Data	-	-	-	-
Limestone	No Specific Data	-	-	-	-

Irritation/Corrosion

Product/ Ingredient	Result	Species	Score	Exposure	Observation	Reversability
C.I. Pigment Yellow 42	Eyes-Draize	Rabbit	0	50mg	7 Days	-
	Skin-Ery- thema/Eschar	Rabbit	0	24 hrs	7 Days	-
				500mg		
Iron (III) Oxide	Eyes-Draize	Rabbit	0	192 hrs 0.1ml	8 Days	Fully Revers- able in 7 Days or Less -
	Skin-Ery- thema/ Eschar	Rabbit	0	4 hrs 500 mg	7 Days	
C.I. Pigment Red 101	No Specific Data	-	-	-	-	-
Limestone	No Specific Data	-	-	-	-	-

Conclusion/Summary

Skin: C.I.Pigment black 11, C.I.Pigment yellow 42, Iron (III) Oxide: Non-irritating.

Eyes: C.I.Pigment black 11, C.I.Pigment yellow 42, Iron (III) Oxide: Non-irritating. Sensitization:





SECTION 11) CONTINUED

Product/ Ingredient	Route of Exposure	Species	Result
C.I. Pigment Black 11	Skin	Guinea Pig	Not Sensitizing
C.I. Pigment Yellow 42	Skin	Guinea Pig	Not Sensitizing
Iron (III) Oxide	Skin	Guinea Pig	Ambiguous
C.I. Pigment Red 101	No Specific Data	-	-
Limestone	No Specific Data	-	-

Chronic Toxicity

Product/Ingredient	Result	Species	Dose	Exposure
C.I. Pigment Black 11/ C.I. Pigment Yellow 42	Sub-acute NOAEC Inhalation Dusts and Mists	Rat-Male	>185.6 mg/m ³	2 Weeks: 6hrs per day 5 days per week
Iron (III) Oxide	Sub-acute NOAEC Inhalation Dusts and Mists	Rat-Male	>10.1 mg/m ³	4 Weeks: 6 hrs per day 5 days per week
C.I. Pigment Red 101	No Specific Data	-	-	-
Limestone	No Specific Data	-	-	-

Mutagenicity

Product/Ingredient	Test	Experiment	Result
C.I. Pigment Black 11/ C.I. Pigment Yellow 42/ Iron (III) Oxide	OECD 476 IN VITRO MAMMALIAN CELL GENE MUTATION TEST	Experiment: In Vitro Subject: BACTERIA METABOLIC ACTIVATION: WITH/WITHOUT S9 MIX	Negative
	OECD 473 IN VITRO MAMMALIAN CHROMOSOMAL ABBERATION TEST	Experiment: In Vitro Subject: MAMMALIAN-ANIMAL CELL:SOMATIC METABOLIC ACTIVATION: WITH/WITHOUT Experiment: In Vitro Subject: MAMMALIAN-ANIMAL CELL:SOMATIC METABOLIC ACTIVATION: WITH/WITHOUT S9 MIX	Negative
			Negative

Carcinogenicity:

Product/Ingredient	Result
C.I. Pigment Red 101	**OSHA Hazardous Components (29CFR 1910.1200). This material is considered a carcinogen by IARC because it contains crystalline silica at levels greater than 0.1%. Inhalation of dust in excess of the TLV may cause mild pulmonary irritation. Long term over-exposure may cause silicosis
Limestone	No Specific Data





SECTION 11) CONTINUED

Mutagenicity

Product/Ingredient	Result	Species	Dose	Exposure
C.I. Pigment Black 11/ C.I. Pigment Yellow 42/ Iron (III) Oxide	Negative-Intraperi- toneal	Rat-Male, Female	Rat-Male, Female	914 dyas; 3 injec- tions a 200mg/kg in 8 weeks
Product/ingredient	CAS#	IARC	NTP	OSHA
C.I. Pigment Black 11/ C.I. Pigment Yellow 42/ Iron (III) Oxide	1317-61-9 51274-00-1 1309-37-1	Not Classified	Not Classified	Not Classified

SECTION 12) ECOLOGICAL INFORMATION

Toxicity:

Product/Ingredient	Test	Result	Species	Exposure
C.I. Pigment Black 11	EU C.2(Acute Toxicity for Daphnia) OECD 209 Activated Sludge, Res- piration inhibition Test OECD 203 Fish, Acute Toxicity Test	Acute EC0>10000mg/l Fresh water Acute EC50>10000mg/l Fresh water Acute LC0>100000mg/l Fresh water	Daphnia-Daphnia mag- na Bacteria-adapted and activated sludge microorganism Fish- Danio rerio	48 hours 3 hours 96 hours
C.I. Pigment Yellow 42	ISO 8192 OECD 202 Daphnia sp.Acute Im- mobilization Test OECD 203 Fish, Acute Toxicity Test	Acute EC50>10000mg/l Fresh water Acute EC50>100mg/l Fresh water Acute LC0>100000mg/l Fresh water	Bacteria-adapted and activated sludge microorganism Daphnia-Daphnia mag- na Fish-Danio rerio	3 hours 48 hours 96 hours
Iron (III) Oxide	OECD 202 Daphnia sp.Acute Im- mobilization Test	Acute EC50>100mg/l Acute EC50>10000mg/l Acute LC0>50000mg/l	Daphnia-Daphnia magna Micro-organ- ismActivated Sludge Fish-Danio rerio	48 hours 3 hours 96 hours
C.I. Pigment Red 101	No Specific Data	-	-	-
Limestone	No Specific Data	-	-	-

Conclusion/Summary:

Persistence and degradability Conclusion/Summary:

Bioaccumulative Potential:

Mobility in Soil Water Partition:

Other Adverse Effects:

Not available.

Not applicable.

Not available.

Not available.

No known significant effects or critical hazards





SECTION 13) DISPOSAL CONSIDERATIONS

Disposal methods: The generation of waste should be avoided or minimized. This material and its container must be disposed of in a safe way because they may retain product residues. Avoid dispersal of spilled material, runoff, contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environment controls laws.

RCRA classification: If discarded in its purchased form, this product would not be a hazardous waste. However, under RCRA, it is the responsibility of the product user to determine whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20–24)

SECTION 14) TRANSPORT INFORMATION

Regulatory Information	UN Number	Proper Shipping Name	Classes	Packing Group	Label	Additional Information
DOT Class	–	–	–	–	–	Not Regulated
IMDG Class	–	–	–	–	–	Not Regulated
IATA–DGR Class	–	–	–	–	–	Not Regulated

SECTION 15) REGULATORY INFORMATION

SARA311/312: None.

SARA Title III Section 302 Extremely Hazardous Substances: None.

SARA Title III Section 313 Toxic Chemicals: None.

US EPA CERCLA Hazardous Substances (40 CFR 302): None.

State regulations: For details on your regulatory requirements you should contact the appropriate agency in your state.

Ingredient Name: C.I.Pigment black 11 / C.I.Pigment yellow 42 / Iron(III)Oxide

CAS Number: 1317–61–9 / 51274–00–1 / 1309–37–1

Concentration (%): 97%max

Massachusetts Substances: MA–S

Massachusetts Extraordinary Hazardous Substances: MA–Extra HS

New Jersey Hazardous Substances: NJ– HS

Pennsylvania RTK Hazardous Substances: PA– RTK HS Pennsylvania Special Hazardous Substances: PA– Special HS

California Prop.65: Potential exposure to some or all of the California Prop 65 chemicals in this product have been determined to be below the No Significant Risk Level (NSRL). To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

U.S.Toxic Substances Control Act: Listed on the TSCA Inventory.

SECTION 16) OTHER INFORMATION

Hazardous Material Information System: (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

Health: 0, Flammability: 0, Physical hazards: 0

National Fire Protection Association (U.S.A.) (0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe)

Health: 0, Flammability: 0, Instability/Reactivity: 0 Special:

Department issuing this data sheet: Product safety department

Disclaimer: The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.





SECTION 1) CHEMICAL PRODUCT AND MANUFACTURERS IDENTIFICATION

Product Name:	RZ Matte Sealer (all varieties)
Supplier:	GBR31
Emergency Phone:	Chemtrac (CCN1217): (800) 424 - 9300 (account:CCN1217)
Information Phone:	(214) 412-9898 E-mail: Support@RedZoneCC.com
Product/Recommended Uses:	For further information refer to the Product Technical Data Sheet

SECTION 2) HAZARDS IDENTIFICATION

Category 2 Flammable Liquid

Category 5 Acute Inhalation Toxicity

Category 5 Acute Dermal Toxicity

Category 2A Eye Irritation

Category 2 Carcinogen

Category 3 Specific Target Organ Acute Toxicity (central nervous system)

Category 2 Acute Aquatic Toxicity

Signal Word: Danger

Hazard Statements:

H225 Highly flammable liquid and vapor H313 May be harmful if in contact with skin H319 Causes serious eye irritation

H333 May be harmful if inhaled

H336 May cause drowsiness or dizziness H351 Suspected of causing cancer

H401 Toxic to aquatic life

Precautionary statements:

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking

P233 Keep container tightly closed

P260 Do not breathe mist/vapors/spray P264 Wash skin thoroughly after handling

P271 Use only outdoors or in a well-ventilated area P281 Use personal protective equipment as a required response:

P301+P312+P331 IF SWALLOWED: Do NOT induce vomiting. Immediately call a poison center or doctor/physician if you feel unwell.

P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs, get medical advice/attention

P370+P378 In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction

Storage:

P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal:

P501 Dispose of contents/container in accordance with local/federal regulations.



SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

Acrylic Copolymer	proprietary	Not established	Not established	24.0 – 26.0
Dimethyl ketone	67-64-1	1000 ppm	500 ppm	10.0 – 20.0
t-Butyl Acetate	540-88-5	200 ppm	200 ppm	40.0 – 50.0
bis (2-ethylhexyl) phthalate	117-81-7	5 ppm	5 ppm	0.1 – 0.2
Glycol Ether	proprietary	50 ppm	20 ppm	1.5 – 2.5
Solvent Naphtha	proprietary	17 ppm	5 mg/m ³	10.0 – 15.0
1,2,4-Trimethylbenzene	95-63-6	25 ppm(1989 std.)	25 ppm	0.0 – 0.6
1,3,5-Trimethylbenzene	108-67-8	25 ppm	25 ppm	0.0 – 0.1
Naphthalene	91-20-3	10 ppm	10 ppm	0.0 – 0.6

SECTION 4) FIRST AID MEASURES

Skin: Clean material from skin with acetone, then wash with soap and water followed by moisturizer. If irritation persists, contact a physician.

Eyes: Flush with a gentle but large stream of clean water for 15 minutes, lifting the lower and upper eyelids occasionally. Remove contact lenses if able. Call a physician if irritation persists.

Inhalation: Move to fresh air and provide oxygen if breathing is difficult. Seek medical attention.

Ingestion: DO NOT INDUCE VOMITING. Give large quantities of water. Do not give milk or alcoholic beverages. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention immediately.

SECTION 5) FIRE-FIGHTING PROCEDURES

Suitable Extinguishing Media: Dry chemical, CO₂, alcohol-resistant foam

Unsuitable Extinguishing Media: High-volume water jet

Flash Point (TCC): 0° F

Flammable Limits (% volume in air for solvents): LEL=1.0 UEL=13.0

Special Fire Fighting Procedures: Evacuate area and fight fire from a distance. Firefighters wear NIOSH approved self-contained breathing apparatus. Cool containers exposed to fire with water. Vapors are heavier than air and may travel along the ground to distant ignition sources. Do not allow runoff from firefighting to enter drains or water courses.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Steps to Take if Material is Released or Spilled: No health affects expected from the clean-up of the material if contact can be avoided. Follow the protection information found in Section 8 of this SDS. Ventilate the contaminated area. Prevent the spread of spilled material by using a suitable absorbent material or sand dam.

SECTION 7) HANDLING AND STORAGE

Normal Handling: Always use good industrial hygiene practices and safety guidelines.

Storage: Store material in its original container. Keep containers tightly closed when not in use. Keep material away from open flame, sparks, or other sources of heat and ignition.

Waste Disposal Method: Liquid material is an ignitable waste (D001). Dispose of material in accordance with federal, state, and local guidelines.

Special Precautions: Use proper bonding/grounding techniques to avoid static buildup/discharge, which can ignite vapors. Empty containers may contain explosive levels of vapor. Do not cut, drill, or weld on or near the containers.





SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: Use NIOSH-approved organic vapor respirator when exposure levels can't be kept below limits.

Ventilation: Provide adequate mechanical ventilation to keep exposure levels below TLV's.

Protective Gloves: Wear impervious chemical gloves.

Eye Protection: Wear chemical safety glasses.

Other Protective Clothing or Equipment: As needed to prevent repeated/prolonged contact.

Work/Hygienic Practices: Use only in adequately ventilated area unless recommended respiratory protection is used. Wash thoroughly with soap and water after handling and before eating, smoking, or using washroom. If clothes become contaminated, change to clean clothing and wash contaminated clothes before re-use.

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear to amber liquid

Odor: Sweet ketone

Odor Threshold: No data available

pH: None

Freezing/Melting Point: <-70° F

Boiling Point: 125° F

Flash Point: 0° F

Evaporation Rate: 14.4 (butyl acetate = 1)

Flammability (solid, gas): No data available

Lower/Upper Flammability: 1.0-13.0

Vapor Pressure: 185 mm Hg at 20° C

Vapor Density: 2.0

Density: 0.89 g/cc

Solubility in water: 26.75% by weight

Partition Coefficient: No data available

Auto-ignition Temperature: 850° F

Decomposition Temperature: No data available

Viscosity: 16-18 centipoise

SECTION 10) REACTIVITY DATA

Reactivity:

Stable

Conditions to avoid:

Prevent vapor accumulation. Avoid heat and flames.

Incompatibility (Materials to Avoid):

Strong oxidizers, acids, alkalies, nitrates.

Hazardous Decomposition (Byproducts):

Carbon monoxide, carbon dioxide, isobutylene, and acetic acid.

Hazardous Polymerization:

Should not occur.



SECTION 11) TOXICOLOGICAL INFORMATION

Routes of Exposure: Inhalation, Ingestion, Eyes, and Skin.

Acute Toxicity Lethal Doses (ATE):

LC50 (inhl) 24.8 mg/l
LD50 (oral) 5261 mg/kg
LD50 (skin) 3299 mg/kg

Health Hazards:

Acute: May cause eye, skin, gastrointestinal, and lung irritation. May cause central nervous system depression.

Chronic: Prolonged and repeated exposures to high concentrations may cause liver and kidney damage.

Skin Contact: May cause irritation and redness. Prolonged or repeated exposure can cause defatting and drying of the skin which may result in a burning sensation and a dried, cracked appearance.

Eye Contact: Causes redness, tearing, irritation of the eyes. Direct contact may will cause moderate eye irritation.

Inhalation: May cause headache, nausea, dizziness, and loss of coordination. Continued inhalation may result in unconsciousness.

Ingestion: May be harmful if swallowed. Aspiration of the material into the lungs can cause chemical pneumonitis, which can be fatal.

Carcinogen: Contains trace amounts (0.0–0.6% w/w) of Napthalene and bis (2-ethylhexyl) phthalate (0.1 – 0.2% w/w), which are IARC category 2B possible carcinogens.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin, eye, or lung disorders may be more susceptible to the effects of the substance.

SECTION 12) ECOLOGICAL INFORMATION

Acute Toxicity to Fish: LL50 (96 hr) 11.2 mg/L (Calculated)

Acute Toxicity to Aquatic Invertebrates: EL50 (48 hr) 2.6 mg/L (Calculated)

Toxicity to Aquatic Plants: EL50 algae 11.0 mg/L (Calculated)

Toxicity to Microorganisms: High concentrations may be harmful to sewage treatment plant microbes.

Chronic Toxicity to Fish: No data available

Chronic Toxicity to Aquatic Invertebrates: No data available

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal Method: Liquid material is an ignitable waste (D001). Dispose of material in accordance with all Federal, State, and Local regulations.

SECTION 14) TRANSPORT INFORMATION

For all modes:

Proper Shipping Name: PAINT

Hazard Class: 3

UN: UN1263

Packing Group: PGI

Marine Pollutant: No





SECTION 15) REGULATORY INFORMATION

SARA 311/312: Yes. (Fire, Acute, Chronic).

OSHA: This material is hazardous by definition of Hazardous Communications Standard (29 CFR 1910.1200).

TSCA: Components of this material are either listed or are exempt from the EPA TSCA Inventory of Chemical Substances.

California Proposition 65: WARNING! This product contains a chemical known to the State of California to cause cancer.

	98-82-8	Cumene	
	71-43-2	Benzene	
	117-81-7	bis(2-Ethylhexyl) phthalate	
Massachusetts Right To Know:	25551-13-7	Benzene, Trimethyl-	35.5 – 42.5
	95-63-6	1,2,4 – Trimethylbenzene	21.0 – 30.0
	98-82-8	Cumene	3.0 – 7.0
	1330-20-7	Mixed Xylenes	0.7 – 3.5
	117-81-7	bis(2-Ethylhexyl)phthalate	0.1 – 0.2

	Proprietary	Glycol Ether	2.0 – 2.5
Pennsylvania Right to Know:	64742-95-6	Light Solvent Naphtha	42.0 – 71.0
	Proprietary	Solvent Naphtha	1.0 – 1.5
	25551-13-7	Benzene, Trimethyl-	35.5 – 42.5
	95-63-6	1,2,4-Trimethylbenzene	21.0 – 30.0
	98-82-8	Cumene	3.0 – 7.0
	1330-20-7	Mixed Xylenes	0.1 – 0.2
	117-81-7	bis(2-Ethylhexyl)phthalate	0.1 – 0.2

	Proprietary	Glycol Ether	2.0 – 2.5
New Jersey Right To Know:	64742-95-6	Light Solvent Naphtha	42.0 – 71.0
	Proprietary	Solvent Naphtha	1.0 – 1.5
	25551-13-7	Benzene, Trimethyl-	35.5 – 42.5
	95-63-6	1,2,4-Trimethylbenzene	21.0 – 30.0
	98-82-8	Cumene	3.0 – 7.0
	1330-20-7	Mixed Xylenes	0.7 – 3.5
	25155-15-1	bis(2-Ethylhexyl)phthalate	0.1 – 0.2
	Proprietary	Glycol Ether	2.0 – 2.5

SECTION 16) OTHER INFORMATION

The regulatory information provided is not intended to be comprehensive. Other Federal, State and Local regulations may apply to this material.

DISCLAIMER: The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

