

Creating Material Change



CeramycShield™ with
QuartzSeal™ or Vitrium™

Instructions for Use



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CeramycShield™ with QuartzSeal™ or Vitrium™

Haydale's CeramycShield™ consists of a ceramic coating basecoat and sealer:

1. CeramycShield™: Ceramic polymer coating
2. QuartzSeal™: Penetrating breathable sealer
OR
Vitrium™: Penetrating impervious sealer

General Guidelines

The following conditions should be met in order to ensure proper application:

Recommended Temperature & Humidity Conditions

Temperature	Relative Humidity	Initial Cure/Light Loading	Full Cure/Normal Loading
>8°C (46°F)	>50%	6 Hours	24 Hours

No wetting of CeramycShield™ surface can occur during the entire application process and full cure.

Surface Preparation

General Guidelines:

- New concrete shall be allowed to cure for a minimum of 28 days before CeramycShield™ application
- Surface must be clean of dirt, dust, oil and other contaminants
- Pressure wash or grind surface to be coated to remove laitance (loose concrete), previous coatings, sealers, dirt, oil, curing compound, and other contaminants from surface
- For a more rapid cure, the surface should be dry before applying CeramycShield™

Safety Instructions

If any of the CeramycShield™ or Sealer components come into contact with skin, use a wet cloth to immediately remove materials. Thoroughly wash skin with soap and water to remove materials.

See SDS for full safety instructions.



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STEP 1: CeramycShield™ Application

Materials needed:

- 2 gallon (or larger) mixing bucket
- Scraper
- Drill (minimum 1500 RPM)
- Stainless Steel mixing drill bit (Jiffy mixer or equivalent)
- Short nap (3/8" - 1/4") paint roller OR spray gun with 2.0mm nozzle
- Flat-edge foam brushes (for touch-ups)
- Wet cloth

Caution:

Personal Protective Equipment (PPE) should be worn for skin and eye protection. See SDS for full safety instructions.

Mixing instructions:

1. Make sure drill bit is fully secured; operate drill at HIGH speed only
2. Pour entire jug of Liquefier (Part A) into mixing bucket
3. Cut corner of Ceramic Powder (Part B) packet and slowly empty contents into mixing bucket
4. Mix on HIGH for 30 seconds or until all Ceramic Powder is incorporated
5. Scrape the unmixed Ceramic Powder down the bucket and off the drill bit
6. Mix on HIGH for an additional 30 seconds; check to ensure all Ceramic Powder is incorporated
7. Pour entire plastic bottle of Densifier (Part C) into mixing bucket
8. Mix on HIGH for 30 seconds, allow to sit for 2 minutes, allowing components to come together
9. CeramycShield™ is now ready; keep bucket covered when not being applied
10. Pot life once mixed: minimum 1 hour when ambient temperature is 20°C (70°F)

CeramycShield™ Application Instructions:

Apply CeramycShield™ evenly until surface is fully covered in a single coat. A second coat is not recommended. The surface should be visually free of porosity.

- Application rate is approximately 20 sqm per gallon, depending on surface porosity
- Protect CeramycShield™ from water for minimum 24 hours after application

Clean Up Instructions:

- Clean drill bits, rollers, brushes and other tools thoroughly with water after application to remove all leftover CeramycShield™ material
- Allow any leftover CeramycShield™ material to harden and dispose of as concrete recycling or in appropriate waste disposal. Hardened materials are inert and have no hazardous conditions, they are accepted in general waste

See SDS for full safety instructions.



STEP 2: QuartzSeal™ & Vitrium™ Application

Materials needed:

- Spray pump or airless sprayer
- Paint roller

Caution:

Personal Protective Equipment (PPE) should be worn for skin and eye protection. See SDS for full safety instructions.

QuartzSeal™ and Vitrium™ Application Instructions:

- Allow CeramycShield™ to cure for 24 hours before applying QuartzSeal™ / Vitrium™
- Put on PPE
- Set up sprayer and add QuartzSeal™ / Vitrium™
 - Keep bottle tightly closed when not in use
- Apply sealer to small test area; if roller darkens from CeramycShield™ coming off the surface, allow to cure for an additional 24 hours
- Apply QuartzSeal™ / Vitrium™ with sprayer until surface is fully covered
 - Application rate is approximately 45 sqm per gallon
- To create an even finish, use a roller in back-and-forth motion on surface
- Protect QuartzSeal™ / Vitrium™ areas from water for a minimum of 24 hours after application
- For surfaces that will be power-washed, QuartzSeal™ / Vitrium™ must be cured for a minimum of 24 hours

Clean Up Instructions:

- Clean sprayer and other tools thoroughly with water after application

See SDS for full safety instructions.



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