

Creating Material Change



CeramycGuard™ with
QuartzSeal™ or Vitrium™

Instructions for Use



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CeramycGuard™ with QuartzSeal™ or Vitrium™

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

1. CeramycGuard™: 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:

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

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

Surface Preparation

To prepare the concrete surface for the application of CeramycGuard™, the following should be done:

- New concrete shall be allowed to fully cure before CeramycGuard™ application. Typical concrete comes to a full cure in 28 days. Fast cure concrete can be used, and manufacturer's instructions on achieving full cure must be followed.
- Surface must be clean of dirt, dust, oil, organic build-up 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 CeramycGuard™

Safety Instructions

Wear gloves and eye protection when applying.

If any of the CeramycGuard™ 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.

STEP 1: CeramycGuard™ Application

Materials needed:

- 2 gallon (or larger) mixing bucket
- Scraper or large plastic spatula
- 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 wetted, incorporated, and there are no lumps
7. Pour entire plastic bottle of Densifier (Part C) into mixing bucket
8. Mix on HIGH for 30 seconds, and ensure Densifier is completely mixed into slurry. Allow to sit for 2 minutes, allowing components to come together.
9. CeramycGuard™ 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)

CeramycGuard™ Application Instructions:

Apply CeramycGuard™ 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 20-25 m²/gallon, depending on condition of existing concrete
- Protect CeramycGuard™ 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 CeramycGuard™ material
- Allow any leftover CeramycGuard™ 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. Consult local general waste guidelines

See SDS for full safety instructions.



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Reapplication

If the underlying concrete cracks in the future, and this crack manifests itself to the surface of an existing, cured, CeramycGuard™ application, then reapplication is possible.

- Ensure surface is clean and prepared as above
- Follow materials needed and mixing instructions as above
- Once the CeramycGuard™ is ready to be applied, use a brush or paint roller and apply over specific cracks
- Fill these cracks and bridge both sides
- Allow the CeramycGuard™ to dry and cure as above
- Cleanup as above

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 CeramycGuard™ to cure for 24 hours before applying QuartzSeal™ / Vitrium™
- Put on PPE
- Set up sprayer and add QuartzSeal™ / Vitrium™ to bottle
- Keep bottle tightly closed when not in use
- Apply sealer to small test area; if roller darkens from CeramycGuard™ coming off the surface, allow to cure for an additional 24 hours
- Apply QuartzSeal™ / Vitrium™ with sprayer. To create an even finish, use a roller in back-and-forth motion on surface. Continue until surface is fully covered
- Application rate is approximately 45 m²/gallon
- 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.

The content supplied in this application guide ("Instructions for Use") supersedes all previous versions supplied. Version 2, April 2021.



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