



# QuartzSeal™ Product Information Sheet



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[www.haydale.com](http://www.haydale.com)  HaydaleGraphene

# QuartzSeal™

## Penetrating Chemically Bonded Inorganic Sealant

Haydale's QuartzSeal™ creates a Near-Zero Porosity over our CeramycShield™ that further inhibits water/waterborne chemical pollutants and other corrosive elements from entering the concrete while still remaining breathable. QuartzSeal™ also imparts improved Stain Resistance by preventing the accumulation of dust, dirt, and stains. A LEED 4.2 compliant material that offers superior performance while maintaining ease of application properties.

- Penetrating Chemical Adhesion
- Breathable
- Will Not Chalk, Peel, or Disbond
- UV Immune
- Improved Chemical Resistance
- Improved Stain Resistance

### Product Characteristics

Finish:	Matte
Colour:	Clear
Weight Solids:	10% ± 2%
VOC:	0.0 g/L; 0.0 lb/gal

### Recommended Spreading Rate per Coat:

	Minimum	Maximum
Wet/Dry MILS (microns)*	1.0 (25)	2.0 (50)
~Coverage sqft/gal	400	800

NOTE: Only a single coat is needed to achieve properties.

Drying Schedule @ 7 mils thick:

	55°F	70°F	85°F
		50% RH	
		30 minutes	10 minutes
To Touch:	1 hour		
To Topcoat:	N/A		
Initial Cure:	24 hours		
Full Cure:	7 days		
Foot Traffic:	8 hours		
Heavy Traffic:	48 hours		

Drying time is temperature, humidity, and film thickness dependent.

Pot Life:	Indefinite
Shelf Life:	Indefinite, Store indoors at 32°F
Flash Point:	None (water based)
Clean Up:	Water

### Recommended Uses

CeramycShield™ protects assets:

- Agriculture & Dairy
- Animal Husbandry
- Bridges (decks, beams, piers/abutments)
- Precast Products (slabs, pipes)
- Cinderblock Walls
- Commercial & Industrial floors
- Concrete Roadways, Runways, Pathways
- Dams
- Food Storage & Processing
- Greenhouses (walls and floors)
- Kill Houses
- Loading Docks
- Parking garages (deck and walls)
- Retaining and Sound Barrier Walls
- Seawalls & Wharfs
- Storm Drains
- Tanks
- Tunnels
- Wastewater Treatment
- Water Treatment

### Performance Characteristics

Substrate: Concrete  
Surface Preparation: Clean

Physical Testing	
Dry Film Thickness	6-8 MILS (150-200 Microns)
Adhesion (Direct Pull-Off) [ASTM D4541]	>1000 PSI (concrete failed)
Thermal Expansion	Concrete Compatible
Thermal Cycling [ASTM D6944]	No Checking Occurred No Cracking Occurred No Blistering Occurred
MOHs Hardness	>9
Hardness, Shore D [ASTM D2240]	90.0 ± 5.0
Taber Abrasion [ASTM D4060] CS-10 @ 1,000g Load, per 1,000 Cycles	17 Wear Index (Excellent Hardness)
UVA/B 370nmλ	No Chalking Occurred No Cracking Occurred No Delamination Occurred
Water Penetration [ASTM E514]	None
High Temperature Service	500°F (No Degradation)
Fire Rating [ASTM E84 – 15b]	Zero (0) Flame Spread
Smoke Generation [ASTM E84 – 15b]	Zero (0) Smoke

### Recommended Systems

	MILS	(Microns)
Concrete Walls: 1 ct. CeramycShield	6.0-8.0	(150-200)
Concrete Floors: 1 ct. CeramycShield 1 ct. QuartzSeal	6.0-8.0 1.0-2.0	(150-200) (50-100)
Anti-Graffiti: 1 ct. CeramycShield 1 ct. Vitrium	6.0-8.0 1.0-2.0	(150-200) (50-100)

### Surface Preparation

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion. Refer to CeramycShield Application Specification for detailed surface preparation information.

### Do not use hydrocarbon solvents for cleaning.

Minimum recommended surface preparation:

Concrete & Masonry: SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP1-3

### Application Conditions

Temperature: 55°F minimum, 85°F maximum  
(air, surface, and material)  
At least 5°F above dew point

Relative humidity: 30% minimum, 85% maximum



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## Ordering Information

Packaging: 1 gallon pails  
Weight: 8.3 ± 0.2 lb/gallon

## Safety Precautions

Refer to the Safety Data Sheets before use.

## Warranty

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