ALCM – A Division of FBC Chemical
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REPELZ 100% SILANE

Product # A37105, A7155



Description: A high performance, 100% silane that penetrates deeply into concrete surfaces to give a long-lasting water repellency.

Once dry, no residue remains and will not affect metals, painted surfaces or glass if applied there during application. REPELZ 100% Silane guards against de-icing salts, while allowing the treated concrete surface to breathe. It is perfectly suited to be applied at any time of year, in hot or cold conditions and will also aid in reducing efflorescence or mildew. Since it penetrates deeply into the concrete where applied, it gives excellent abrasion resistance and will not cause the surface to become slippery. It cannot inhibit water on cracked or deteriorated concrete surfaces.

Uses: Ideal for driveways, sidewalks, bridge decks, ramps, parking garages, above grade, concrete highways, barrier rails, stadiums, interior/exterior concrete flooring, and industrial concrete flooring that is at least 14-28 days old. Can be used on concrete, brick/masonry, and stucco substrates.

Coverage Rate: 250 – 400 ft^2/gal

**Coverage is dependent on porosity of substrate.*

Advantages:

- **EXCELLENT PENETRATION**
  Works deep into concrete substrate to densify and add long lasting protection.
- **ABRASION RESISTANT**
  Can handle vehicle traffic. Ideal for bridge decks, highways, ramps, and other high traffic concrete structures.
- **WEATHER RESISTANT**
  Protects surfaces from wind driven rain, weathering events, and salt/de-icer penetration.
- **SURFACE SEALER**
  Protects against mildew, efflorescence, and chemical/moisture staining.

Shelf Life: 18 months in unopened container stored between 40°F - 90°F

Preparation: Make sure surfaces are free of dust, dirt, and debris prior to application. Repair/repoint any cracked, deteriorating, or loose mortar and allow to repair material adequate cure time before applying REPELZ 100% Silane. Use caulking, patching

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compounds, or crack sealants prior to application of REPELZ 100% Silane to seal up any gaps, cracks, terminations, expansion joints, etc.

Mixing: Stir product well prior to application.

Application: Spray one or two flood coats onto properly prepared horizontal surface. Concrete with higher porosity will require more material for proper coverage. For properly prepared vertical surfaces, apply thinner coats and avoid material dripping/running down surfaces. Apply to saturation.

For best results, apply product at temperatures 20°F and rising.

NOTE: REPELZ 100% Silane cannot inhibit water on cracked or deteriorated concrete surfaces.

PROPERTIES

Dry to Touch	4-6 Hours
Penetration Depth	0.35 – 0.40 “
Wind Driven Rain Resistance	100% (ASTM E514)
Flash Point	165°F
Water Vapor Transmission	2.0 grains/h/ft² (ASTM D6490)
Rapid Chloride Permeability	250 ft²/gal (6.1 m²/L): 96% reduction
	400 ft²/gal (9.8 m²/L): 87% reduction
Water Resistance	
Absorption %:	Concrete 0.96%, Brick 0.05% (ASTM D6532)
Exclusion %:	Concrete 90%, Brick 99%
Water weight gain %:	250 ft2/gal (6.1 m2/L): 90% reduction
	400ft2/gal (9.8 m2/L): 85% reduction
Skid Resistance	Untreated = 90 Treated = 90
VOC’s	< 350 g/l
ASTM E514 Wind Driven Rain Resistance	
ASTM D6532 Water Resistance	
NCHRP 244 Series II Cube Test – Exceeds Criteria	
ASTM E303 Skid Resistance	

Cleaning and Removal: Clean tools and equipment with acetone or xylene.

Contact FBC Chemical Corporation sales and technical service for any questions regarding the application of this product.

STORM SHIELD

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Precautions: Test a small area then allow 5-7 days to fully cure to observe prior to use over larger area to determine appropriate coverage rate and appearance. Properly prepared surfaces are free of dust, dirt and debris. Apply via low pressure, non-atomizing sprayer, from the bottom up for vertical surfaces to give uniformity. Apply to saturation. Review product SDS prior to application for safe application environment.

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