Data Sheet

Cremsil
Octyl Silane Cream

PRODUCT NAME

Cremsil™
Octyl Silane Cream Primer and Water Repellent

NORTH AMERICA DISTRIBUTOR/MANUFACTURER

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KEY BENEFITS

- Deep penetration
- Dramatic reduction in chloride and water absorption
- Excellent resistance to alkalis
- Comprehensive protection against freeze/thaw damage and road salt attack
- Provides good adhesion for coatings
- Single coat application
- Low wastage and efficient application
- Solvent free, aqueous and environment friendly

DESCRIPTION

Cremsil™ is an octylsilane based thixotropic cream used to protect concrete substrates from water and chloride ion penetration. The silane cream remains on the surface after application and penetrates deeply into the concrete over time until fully absorbed. This minimizes evaporation loss that is a problem for low viscosity silanes during application. Deeper penetration significantly improves durability and protection performance. **Cremsil** can be used as a stand alone product or as a high performance primer for coatings such as **Klaas Coatings Si-Rex03™** Silicone Resin Emulsion Paint. The cream format and high active content (80%) ensures very efficient application free from drips without loss even on walls and soffit areas. As the cream penetrates and reacts with the concrete it forms a polymeric silicone resin with very strong and durable covalent bonds to the substrate and providing strong water repellency throughout the penetrated zone. The water repellency of the penetrated zone should not be confused with surface beading that is just a surface effect.

AREAS OF USE

- Off-form Concrete
- Precast Concrete
- As a primer for **Si-Rex03** Silicone Resin Emulsion Paint

SURFACE PREPARATION

Surfaces should be dry and free from contamination such as release compounds, oil, grease, loose particles, decayed matter, mildew, mold, laitance and any other material that may inhibit penetration.

Off-form and precast concrete should be high pressure water washed to remove cement fines from surface. The substrate must be in a surface dry state; do not apply if rain is expected on day of application. Concrete should be at least 28-days old. Repair patching should be at least 3-days old.

Protect plants, glass, asphalt, bitumen, plastics and painted surfaces prior to application.

APPLICATION METHOD

Cremsil is best applied undiluted by low pressure airless spray with surface temperature between 45°F and 95°F. Lambskin roller, brush or spatula suitable for use in small areas.

APPLICATION RATE

Average rate 180sqft per US gallon (4.5sqm/liter) – can vary depending upon porosity. Do not apply at a rate under 145sqft per US gallon (3.6Sqm/liter) to avoid surface liquification.

APPLICATION QC

A creamy layer forms on the surface initially for some 30-minutes at 75°F then disappears completely taking several hours for full penetration within substrate.

DETERMINING PENETRATION

Drill a core and wet core with water. Water will darken the unpenetrated zone and will not darken the penetrated zone.

SILICONE RESIN PAINT TOPCOAT

Allow Cremsil to cure for 24-hours prior to application of top coats of **Si-Rex03** Silicone Resin Emulsion Paint from **Klaas Coatings**.

RESTRICTIONS ON USE

Do not use in situation below grade or full immersion where hydrostatic pressure can be significant.

PACKAGING

52.84 Gallon (200 Liter) Drum
5 Gallon (18.93 Liter) Pail

STORAGE

Cremsil has a shelf life of at least 12-months when stored in the originally sealed containers at temperatures not exceeding 90°F (32°C); minimum temperature during storage and transportation 32°F (0°C). Containers must be protected against direct sunlight.

Storage beyond date specified on the label does not necessarily mean product is no longer usable; properties required for intended use must be checked for quality assurance reasons.

CLEAN UP

Water. Refer to Material Safety Data Sheet (MSDS).

PRODUCT DATA

Color:	White Cream
Active Component:	Octyltriethoxysilane
Active Content:	80%wt
Solvents:	None (Water Based)
Density at 77°F / 25°C:	7.5lb/US gallon 0.9mg/cm³
pH:	7.0 approx.
Flash point:	165°F / 74°C

Note: The information provided is intended as a guide only and is correct to best of our knowledge at time of issue. It should not be considered as a definite approval for suitability for a particular purpose. Contact the manufacturer or distributor for confirmation of suitability.

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