

Sikagard® 705 L

Silane based reactive water repellent penetrating sealer

Description	Sikagard®-705 L is a one part low viscosity, solvent free, reactive impregnation for concrete and cementitious substrates based on silane technology with 99% active ingredient. Sikagard®-705 L complies with the highest requirements of EN 1504-2 for hydrophobic Impregnation (penetration depth class II & resistance to freeze-thaw cycles and chloride ion penetration).
Where to Use	Sikagard®-705 L is used as water-repellent penetrating sealer (hydrophobic treatment) for absorbent substrates such as <ul style="list-style-type: none">■ Parking decks■ Bridge decks■ Concrete highway surfaces■ Ramps and Barriers■ Cooling Towers■ Stadiums■ Natural stone substrates■ Many other traffic bearing/reinforced concrete substrates and structures
Advantages	<ul style="list-style-type: none">■ Excellent penetration (~100% active content)■ Economic and easy to use■ Reduces capillary water absorption, protection against driving rain and splashing on vertical areas.■ Reduction of absorption of aggressive or deleterious agents dissolved in water (i.e. de-icing salts or chloride from marine environment)■ Non vapor barrier■ Long term efficiency, deep penetration■ Increases the resistance of concrete to freeze and thaw cycles and de-icing salts■ Low VOC content■ Resistant to sea water■ Ready and easy to use
Coverage	Dependent on absorbency of the substrate as well as the required penetration depth: 240-360 sq.ft./gal per coat
Cure Mechanism	Sikagard®-705 L does not require any special curing but must be protected from rain for at least 3 hours at +68°F.
Packaging	5 gal. pail, 55 gal. drum

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	2 years from production date
Storage Conditions	Store in unopened, undamaged and original sealed packaging in dry and cool conditions. Protect from moisture.
Product Conditioning	Condition material between 40°F and 95°F
Sealer Type	Alkylalkoxy Silane
Active Ingredient Content	~100%
VOC	327g/l
Depth of Penetration - OHD L-34	>10 mm
Flash Point	104°F (40°C)
Alberta DOT Type 1c	
Water Repellance after Heavy Abrasion	85.3%
Alkali Resistance	84.8%

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Construction

 **Sika**®

Vapor Transmission	106.9%
NCHRP 244: (125 sq.ft./gal)	
Series II - Absorbed Chloride	88%
Series IV - Absorbed Chloride	98%
Water Absorption - ASTM C642	.06% (24 hrs)/.1% (48 hrs)
Scaling Resistance - ASTM C672	None
90 Day Salt Ponding - AASHTO T 259	82.6% (.5-1")

How to Use

Surface Preparation

Best results are achieved when Sikagard®-705 L is applied on 28 days old concrete – however, due to its high alkali resistance, it is still possible to apply it at a very early age. Best results are achieved on a dry, very absorbent substrate. All surfaces to be sealed must be dry, clean, sound before application. Remove all grease, curing compounds, surface treatments, coatings, oils, etc.

Preparation Work: Concrete, masonry and natural stone surfaces must be prepared using mechanical means (sandblast, shotblast, high pressure water, etc.). Cracks in concrete more than 12 mils must be repaired prior to application of the hydrophobic treatment.

Mixing

Sikagard® -705 L is supplied ready to use and must not be diluted.

Application

Sikagard®-705 L is applied using a low-pressure spray, brush or roller, in a single pass from bottom up taking care not to let the product run. Apply subsequent coats wet on wet. Avoid ponding on the surface.

Over Painting

Can be overcoated with water and solvent based polymer paint - contact the proposed paint manufacturer for recommendations.

Sikagard®-705 L can be used as a water repellent primer under many Sikagard® protective coatings. Penetration of water is thus prevented at possible weak spots or in the event of damage to the top coat and the risk of consequential damages such as paint flaking can be reduced.

Waiting time for Sikagard® overcoating: minimum 5 hours, maximum 1 week.

Limitations

- Best results are achieved when Sikagard®-705 L is applied on 28 days old concrete – however, due to its high alkali resistance, it is still possible to apply it at a very early age.
- Areas such as window frames which still need to be painted must be securely covered to avoid contact with Sikagard®-705 L.
- Areas not to be impregnated such as window panes need to be protected from being accidentally contaminated with Sikagard®-705 L.
- Sikagard®-705 L can damage some coatings and bituminous products.
- Sikagard®-705 L can lead to darkening of concrete, apply sample areas first.
- Cannot be overcoated with limewash or cement paint.
- Refer to the latest Method Statement for detailed information regarding surface preparation, application method, etc.

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