

Sikagard® 706 Thixo

Silane based water repellent impregnation cream

Description	Sikagard®-706 Thixo is a one part reactive silane based impregnation cream. It is a solvent free product with ~80% content of active substance. Sikagard®-706 Thixo 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) and NCHRP Report 244 Series II & IV.
Where to Use	Sikagard®-706 Thixo is used as water-repellent impregnation (hydrophobic treatment) for absorbent substrates such as <ul style="list-style-type: none">■ Marine structures■ Pilings■ Piers■ Bridge decks■ Building facades
Advantages	<ul style="list-style-type: none">■ Non-sag (thixotropic) consistency, allowing wastage-free application of sufficient quantities and assuring deep penetration■ Independent test data available■ Reduction of water absorption■ Reduction of absorption of aggressive or deleterious agents dissolved in water (i.e. de-icing salts or chloride from marine environment)■ No noticeable change of water vapor permeability■ Not film forming■ Ready to use■ Long term efficiency, deep penetration■ Increases the resistance of concrete to freeze and thaw cycles and de-icing salts.■ Resistant to sea water■ Low VOC content■ Waste free■ Non Vapor Barrier
Coverage	Between ~200-250 sq.ft/gal. can be applied in one operation to vertical and sloped surfaces without loss of material. The exact amount depends on the absorbency of the substrate. At higher application rates, the impregnating agent might liquefy at the top of the concrete and it may start to run off. A second coat may be applied at any time but is usually unnecessary. A preliminary trial should be carried out to assess the penetration depth in the given substrate.
Packaging	5 gallon pail, 55 gallon 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	12 months from date of production
Storage Conditions	Store in undamaged and unopened original sealed packaging in dry and cool conditions.
Product Conditioning	+40°F min. / +100°F max.
Sealer Type	Alkylalkoxy Silane
Active Ingredient Content	80%
Based	Water emulsion
VOC	319 g/L
Application Thickness	~ 10 mils
Depth of Penetration - OHD L-34	>10 mm
Alberta DOT Type 1b	
Water Repellance after Abrasion	90.2%
Alkali Resistance	87.2%
Vapor Transmission	70.0%

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Construction



NCHRP 244 Series II			
Water Weight Gain	184 sq.ft./gal		80%
	370 sq.ft./gal		81%
Absorbed Chloride	184 sq.ft./gal		84%
	370 sq.ft./gal		83%
NCHRP 244 Series IV			
Absorbed Chloride	184 sq.ft./gal		95%
	370 sq.ft./gal		93%
90 Salt Ponding - AASHTO T 259 / T 260			
	184 sq.ft./gal	0.0-0.5"	73%
		0.5-1.0"	60%
		1.0-1.5"	10%
	370 sq.ft./gal	0.0-0.5"	73%
		0.5-1.0"	60%
		1.0-1.5"	10%
Water Vapor Transmission - ASTM E96-95			
	184 sq.ft./gal	up: 2.6; down: 2.4	
	370 sq.ft./gal	up: 3; down: 2.5	
Scaling Resistance - ASTM C672-92			
		Control: 40 cycles	
		100 g/m ² : 70 cycles	
		200 g/m ² : 80 cycles	
Water Penetration & Leakage through Masonry - ATM E514-86			
	184 sq.ft./gal		90%
	370 sq.ft./gal		89%
Skid Resistance - ASTM E303			
	184 sq.ft./gal		BPN = 92 (dry), 93 (wet)
	370 sq.ft./gal		BPN = 84 (dry), 70 (wet)
Surface Friction/Slip Resistance - ASTM F609 @ 370 sq.ft./gal			
		f=0.8 (rubber/wet&dry)	
		f=0.7-0.9 (leather/dry resp. wet)	

How to Use

Surface Preparation

Best results are achieved when Sikagard®-706 Thixo 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 and masonry 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®-706 Thixo is supplied ready for use and should not be thinned or diluted.

Application

Sikagard®-706 Thixo is applied using airless spray, brush or roller, from bottom up.

Over Painting

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

Sikagard®-706 Thixo can be used as 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®-706 Thixo 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®-706 Thixo.
- Areas not to be impregnated such as window panes need to be protected from being accidentally contaminated with Sikagard®-706 Thixo.
- Sikagard®-706 Thixo can damage some coatings and bituminous products.
- Sikagard®-706 Thixo can lead to darkening of concrete, apply sample areas first.
- Cannot be overcoated with limewash or cement paint.
- Apply Sikagard®-706 Thixo onto a sample area to confirm consumption rates versus required penetration depth.
- Refer to the latest Method Statement for detailed information regarding surface preparation, application method, etc.



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