

Sikagard®-705 OWR

Reactive impregnation for concrete and cementitious substrates with oilphobic additive

Description Sikagard-705 OWR 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 OWR 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 is tested in accordance with NCRHP 224 Series II & IV.

Where to Use Sikagard-705 OWR is used as water-repellent penetrating sealer (hydrophobic treatment) for absorbent substrates such as

- Parking decks and bridge decks
- Ramps and barriers
- Cooling towers
- Stadiums
- Natural stone substrates
- Many other traffic bearing/reinforced concrete substrates and structures

Advantages

- Excellent penetration
- Economical 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
- **Contains Oilphobic Resin for oil repellency**

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 date of production.
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	~100 g/l (~1% w/w)
Application Thickness	7 mils
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%
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")

- Conforms to the requirements of the EN 1504-2 class II – Polymer Institute report P 5672-E dated 9th August 2007.



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Coverage	Dependent on absorbency of the substrate as well as the required penetration depth: 240-360 sq.ft./gal per coat
Packaging	55 gallon drum.
How to Use	
Surface Preparation	Best results are achieved when Sikagard-705 OWR is applied on 28 days old concrete – however, due to its high alkali resistance, it is still possible to apply as early as 3 days. Testing should always be done to ensure proper penetration depth. 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, pressure wash, etc.). Cracks in concrete more than 12 mils must be repaired prior to application of the hydrophobic treatment. If using water to clean, substrate should be visibly dry (i.e. no damp/dark patches) before coating. Surface moisture as measured by Tramex should read 6% or lower.
Mixing	Sikagard-705 OWR is supplied ready to use and must not be diluted.
Application	Sikagard-705 OWR 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 OWR 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 OWR is applied on 28 days old concrete – however, due to its high alkali resistance, it is still possible to apply it as early as 3 days. Testing should always be done prior to application on early age concrete to ensure sufficient penetration depth. <ul style="list-style-type: none"> ■ Areas such as window frames which still need to be painted must be securely covered to avoid contact with Sikagard-705 OWR. ■ Areas not to be impregnated such as window panes need to be protected from being accidentally contaminated with Sikagard-705 OWR. ■ Sikagard-705 OWR can damage some coatings and bituminous products. ■ Sikagard-705 OWR can lead to darkening of concrete, apply sample areas first. ■ Cannot be overcoated with limewash or cement paint.

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