

Sikagard® 740 W

Silane based reactive water repellent penetrating sealer

Construction

Description	Sikagard®-740 W is a one part low viscosity, reactive impregnation for concrete and cementitious substrates based on concentrated Silane emulsion. Sikagard®-740 W complies with the requirements of NCHRP Report 244 Series II & IV. Sikagard®-740 W is classified under the ALBERTA infrastructure and transportation specifications. Sikagard®-740 W 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®-740 W is used as water-repellent penetrating sealer (hydrophobic treatment) for absorbent substrates such as <ul style="list-style-type: none">■ Walkways and ramps■ Industrial floors■ Exposed aggregate■ Pre-cast or pre-placed concrete■ Masonry■ Parking decks■ Stadiums■ Bridge Decks
Advantages	<ul style="list-style-type: none">■ Good penetration■ Economic and easy to use■ Independent test data available■ 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. chlorides)■ Not a vapor barrier■ Increases the resistance of concrete to freeze and thaw cycles and de-icing salts■ Water based emulsion, Low VOC■ Resistant to sea water■ Ready and easy to use
Coverage	Coverage is entirely dependent on the porosity of the substrate. Extremely non-porous substrates may only require 1 coat. To ensure proper penetration depth, a field mock up is recommended: ~ 240-380sq.ft/gal
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	9 months 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	40%
Base	Water emulsion
VOC	331 g/l
Depth of Penetration - OHD L-34	<10 mm
Alberta DOT Type 1a	129ft ² /US Gallon
Alberta DOT Type 1b	
Water Repellance	86.3%
Alkali Resistance	85.3%
Vapor Transmission	72.3%
NCHRP 244 Series II: (125 sq.ft./gal)	
Water Weight Gain	85%
Absorbed Chloride	96%

 **Sika**®

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NCHRP 244 Series IV: (125 sq.ft./gal)		
Absorbed Chloride	79.1%	
90 Day Salt Ponding - AASHTO T 259	0.0-0.5"	93%
	0.5-1.0"	73%
	1.0-1.5"	74%
Scaling Resistance - ASTM C672:	None	
90 Day Salt Ponding - AASHTO T 259	0.0-0.5"	93%
	0.5-1.0"	73%
	1.0-1.5"	74%
Scaling Resistance - ASTM C672:	None	

How to Use

Surface Preparation Best results are achieved when Sikagard®-740 W is applied on 28 days old concrete – however, due to its high alkali resistance; it is still possible to apply it at an early age – lower penetration might then be expected.

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®-740 W is supplied ready for use and must not be diluted.

Application Substrate and ambient temperature for application should be between 40°F and 95°F. Sikagard®-740 W is applied using a low-pressure spray, airless spray, brush or roller, in a single pass from bottom up taking care not to let the product run. Apply subsequent pass "wet on wet" until the required consumption is achieved. On horizontal surface, use flooding technique but avoid excessive ponding on the surface.

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

Sikagard®-740 W 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: minimum 5 hours, maximum 1 week.

- Limitations**
- Best results are achieved when Sikagard®-740 W is applied on 28 days old concrete – however, due to its high alkali resistance; it is still possible to apply it at an early age – lower penetration might then be expected.
 - Areas such as window frames which still need to be painted must be securely covered to avoid contact with Sikagard®-740 W.
 - Areas not to be impregnated such as window panes need to be protected from being accidentally contaminated with Sikagard®-740 W.
 - Sikagard®-740 W can damage some coatings and bituminous products.
 - In rare cases, Sikagard®-740 W might lead to light darkening of concrete, apply sample areas first.
 - Cannot be overcoated with limewash or cement paint.
 - Apply Sikagard®-740 W onto a sample area to confirm consumption rates versus penetration depth.
 - Refer to the latest Method Statement for detailed information regarding surface preparation, application method, etc.

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KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

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Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at <http://usa.sika.com/> or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

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