

## PRODUCT DATA SHEET

# Sikagard® SN-40

### SILANE BASED REACTIVE WATER REPELLENT PENETRATING SEALER

#### PRODUCT DESCRIPTION

Sikagard® SN-40 is a highly penetrating, water-repelling silane sealer. Using proven technology, the material has been formulated to provide an integral barrier against the ingress of moisture and water-borne salts into concrete and masonry.

#### USES

- Building facades and civil engineering structures.
- Suitable for use on exposed horizontal and vertical surfaces including bridges and parking decks, barriers, abutment walls and marine structures.
- Prevention of deterioration arising out of soluble salts and freeze/thaw damage in reinforced concrete and porous block or brickwork.
- To help prolonging the design or service life of buildings and civil engineering structures.

#### CHARACTERISTICS / ADVANTAGES

- Good penetration
- Solvent based emulsion, good for low temperatures
- 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. chlorides)
- No change in water vapor permeability Increases the resistance of concrete to freeze and thaw cycles and de-icing salts
- Resistant to sea water
- Ready to use

#### PRODUCT INFORMATION

<b>Chemical Base</b>	100% reactive alkylalkoxy silane in mineral spirits
<b>Packaging</b>	55 gallon drum
<b>Shelf Life</b>	2 years in original, unopened container
<b>Storage Conditions</b>	Store between 0 and 85 °F (-18 and 30 °C). Condition material between 50 and 85 °F (10 and 30 °C) prior to use.
<b>Density</b>	6.9 lbs/gal.
<b>Flash Point</b>	102°F
<b>Active Content</b>	40%
<b>Viscosity</b>	<20 cps

## TECHNICAL INFORMATION

<b>Resistance to Alkalinity</b>	85.3%	150 ft <sup>2</sup> /gal	(Alberta BT002)
	84.2%	225 ft <sup>2</sup> /gal	
<b>Permeability to Water Vapor</b>	90.2%	150 ft <sup>2</sup> /gal	(Alberta BT001)
	84.3%	225 ft <sup>2</sup> /gal	
<b>Rapid Chloride Permeability</b>	82%	1 day	(NCHRP 244 Series II)
	87%	5 days	
	90%	21 days	
	98%		(NCHRP 244 Series IV)
	53.5%	0.625-0.5" depth	(AASHTO T-259/260)
<b>Coverage</b>	The recommended coverage rate for most concrete substrates is 150 ft <sup>2</sup> /gal. Very porous surfaces may require 2 coats.		
	<b>Substrate</b>	<b>Coverage</b>	
	Bridge Decks/Ramps	150-250 ft <sup>2</sup> /gal	
	Resealing Bridge Decks/Ramps	150-300 ft <sup>2</sup> /gal	
	Smooth Concrete	150-225 ft <sup>2</sup> /gal	
	Exposed Aggregate	100-200 ft <sup>2</sup> /gal	
	Concrete Block	50-100 ft <sup>2</sup> /gal	
	Brick/Stone	60-200 ft <sup>2</sup> /gal	
	Coverage rates are provided as a guideline only. Many factors including surface texture, porosity and weather conditions will determine actual coverage rates.		
<b>Substrate Temperature</b>	Recommended substrate temperatures are between 40-90°F. Material may be applied as low as 20°F, providing the substrate is ice-free/frost-free, though lower penetration might be expected.		
<b>Waiting / Recoat Times</b>	Sikagard® SN-40 loses its solvent very rapidly after application. However, the reaction of the residual silane monomer with the substrate will take at least 24 hours at a temperature of 77 °F (25 °C). Drying is considerably longer at colder temperatures. Do not apply if rain is expected within 4-6 hrs of application.		

### SURFACE PREPARATION

All surfaces must be clean, sound, frost free and dry (maximum depth of penetration is achieved when substrates are dry, with no damp patches). Any existing coatings, surfaces treatments, accumulated pollutants, dust, dirt, oil and efflorescence must be removed. A substrate clogged with dirt or oil will not permit proper sealer penetration. Uncoated surfaces must be free from curing compound residues and any material or contaminants detrimental to penetration. Best results are achieved when Sikagard® SN-40 is applied onto 28 days old or older concrete, however, due to its high alkali resistance, it is possible to apply it earlier. All substrates requiring preparation, such as contaminated surfaces or horizontal concrete slabs, must be properly cleaned before the sealer is applied. This is best achieved using grinding, light sand-blasting, shot-blasting or high pressure water blasting. Allow adequate

time for surfaces to dry (for best penetration) before proceeding with application. A test patch should always be performed to determine proper results and coverage rates prior to application.

### MIXING

The material is ready for use and requires no mixing. Do not dilute.

### APPLICATION

**Vertical Surfaces:** Apply Sikagard® SN-40 using a brush, roller or industrial spray equipment, working from top to bottom by maintaining a 12 in (30 cm) parallel curtain (run down). When applying the material on a vertical surface, avoid accumulation and run-off of the material. In the event of material accumulation or run-off lines being formed, redistribute the material on the surface or

remove by sponging. In most cases, the flood coat should be applied in two (2) passes. Apply a light spray to break the surface tension of the wall and follow immediately with a flood coat, "wet on wet", with the second pass at right angles to the first. Fully saturate all mortar joints.

**Horizontal Surfaces:** Apply Sikagard® SN-40 using a roller or low-pressure spray, ensuring that product penetrates the substrate and does not "pond" or "puddle" on the surface. If ponding occurs, make sure to redistribute or remove the excess material on the surface before material starts to dry and form a film that will prevent penetration of excess material. Where working on a horizontal surface the flood coat should be applied in two (2) passes, "wet on wet" with the second pass at right angles to the first. Complete and correct coverage of surfaces is crucial to the success of such sealers. Fully saturate all mortar joints.

## LIMITATIONS

- Sikagard® SN-40 is best applied onto 28 day old concrete or older, however, due to its high alkali resistance, it is possible to apply it earlier, though lower penetration might be expected.
- Can be applied at temperatures down to 20°F, providing the surface is ice-free/frost-free, though lower penetration might be expected.
- Not recommended for exterior applications if rain is expected within 4-6 hours.
- Not intended for waterproofing under hydrostatic pressure, in permanent contact with water or for below ground waterproofing.
- Not intended to seal visible cracks from moisture ingress.
- Building materials not to be treated (e.g. window frames and glazing) must be protected from contact. In case of splashes, clean immediately using clean water and a squeegee.
- Some coatings and bituminous materials may be damaged by the Sikagard® SN-40; care is required during application or protection against contact may be necessary.
- Use Sikagard® SN-40 with adequate ventilation.
- Surfaces treated with Sikagard® SN-40 cannot be overcoated with either cement or lime-wash based paints.

- Sikagard® SN-40 is clear and typically "invisible" to the eye once cured and dried, however if there are strict aesthetic requirements (for example on natural stone) it is recommended to undertake preliminary trials as slight darkening of some surfaces may occur.
- Do not let dry excess material, darkening, change of color and appearance of substrate may occur

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## LEGAL DISCLAIMER

- 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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