BUILDING TRUST

PRODUCT DATA SHEET

Sikagard®-740 W

Silane based, water repellent, reactive penetrating sealer

PRODUCT DESCRIPTION

Sikagard®-740 W is a one part low viscosity, reactive penetrating sealer 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).

USES

Sikagard®-740 W is used as water-repellent penetrating sealer (hydrophobic treatment) for absorbent substrates such as:

- Walkways and ramps
- Industrial floors
- Exposed aggregate
- Pre-cast or pre-placed concrete
- Masonry
- Parking decks
- Stadiums
- Bridge Decks

CHARACTERISTICS / ADVANTAGES

- Good penetration
- 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
- Water based emulsion, Low VOC
- Resistant to sea water
- Ready to use

ENVIRONMENTAL INFORMATION

This product cannot be used in the South Coast Air Quality Management District ("SCAQMD") unless the following criteria from SCAQMD Rule 1113(b)(54) are met:
(A) Used only for reinforced concrete bridge structures for transportation projects within 5 miles of the coast or above 4,000 feet elevation or for restoration and/or preservation projects on registered historical buildings that are under the purview of a restoration architect.
(B) Penetrate into concrete and masonry substrates and chemically react to form covalent bonds with naturally occurring minerals in the substrate.
(C) Line the pores of concrete and masonry substrates with a hydrophobic coating, but do not form a surface film.
(D) Improve water repellency at least 80 percent after application on a concrete or masonry substrate. This performance must be verified on standardized test specimens, in accordance with one or more of the following standards: ASTM C67, or ASTM C97/97M, or ASTM C140.
(E) Provide a breathable waterproof barrier for concrete or masonry surfaces that does not prevent or substantially retard water vapor transmission. This performance must be verified on standardized test specimens, in accordance with ASTM E96/E96M or ASTM D6490.
(F) Meet the performance criteria listed in the National Cooperative Highway Research Report 244 (1981), surface chloride screening applications, for products labeled and formulated for vehicular traffic.
Please review SCAQMD Rule 1113 for further information.

PRODUCT INFORMATION

Chemical Base	Alkoxysilane	
Packaging	5 gal. (19 L) pail and 55 gal. (208 L) drum	
Appearance / Color	Milky water like liquid emulsion.	
Shelf Life	9 months from date of production if stored in unopened, undamaged and original sealed packaging.	
Storage Conditions	Store in dry and cool conditions. Protect from moisture and frost. Condition material between 40°F and 95°F prior to application	
Product Declaration	**Alberta DOT Type 1a**	129 ft²/gal.
	Alberta DOT Type 1b	
	Water Repellence	86.3%
	Alkali Resistance	85.3%
	Vapor Transmission	72.3%
	NCHRP 224 Series II	**125 ft²/gal.**
	Water Weight Gain	85%
	Absorbed Chloride	96%

	NCHRP 224 Series IV	**125 ft²/gal.**	
	Absorbed Chloride	79.1%	
Active content	~40 %		

TECHNICAL INFORMATION

Freeze Thaw De-Icing Salt Resistance	**90 Day Salt Ponding**		AASHTO T259
	0.0 - 0.5"	93%	
	0.5 - 1.0"	73%	
	1.0 - 1.5"	74%	
	Scaling Resistance	None	ASTM C672
Penetration Depth	<10 mm		OHD L-34

APPLICATION INFORMATION

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
Ambient Air Temperature	40 °F (5 °C) min. / 95 °F (35 °C) max.
Substrate Temperature	40 °F (5 °C) min. / 95 °F (35 °C) max.
Waiting / Recoat Times	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.
Curing Treatment	Sikagard®-740 W does not require any special curing but must be protected from rain for at least 6 hours at 68 °F (20 °C).

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.

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.

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.

APPLICATION INSTRUCTIONS

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 as early as 3 days – 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, shot blast, high pressure water, 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®-740 W is supplied ready for use and must not be diluted.

APPLICATION

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.

OTHER RESTRICTIONS

See Legal Disclaimer.

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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