

PRODUCT DATA SHEET

Sikagard®-701 W

Solvent-free, siloxane emulsion concentrate

PRODUCT DESCRIPTION

Sikagard®-701 W is a solvent-free concentrate of silane modified siloxane emulsion. It must be diluted and the diluted liquid solution forms a water and chloride-ion repellent impregnation specifically formulated to seal absorbent cementitious surfaces and other masonry substrates.

USES

- When diluted, use Sikagard®-701 W as a colorless, non-vapor-barrier, water and chloride ion-repellent impregnation for absorbent materials.
- Treat concrete bridges, roadways, runways, parapet walls, precast, beams, columns, curbing, retaining walls, pavers, etc.
- Treat both new and existing structures.
- Treat masonry brickwork, stucco, etc.
- Porous architectural curtain wall panels.
- Use on steel-reinforced structures to reduce the corrosion and latent damage potential of chlorides.

CHARACTERISTICS / ADVANTAGES

Sikagard®-701 W is both an economical and simple-to-use sealer. Because of its unique ability to decrease water and chloride intrusion, Sikagard®-701 W helps reduce the danger of rebar corrosion.

Sikagard®-701 W:

- Meets the standards of acceptability for concrete sealers established in NCHRP Report #244.
- Enhances concrete integrity.
- Reduces efflorescence.
- Improves resistance to frost and de-icing salts (chloride ion).
- Reduces dirt penetration.
- Does not act as a vapor barrier.
- May be applied to alkaline substrates.
- Will not degrade under UV exposure.

PRODUCT INFORMATION

Packaging	5 gal. pail.
Appearance / Color	white/opaque liquid
Shelf Life	1 year in original, unopened containers (undiluted).
Storage Conditions	Store dry at 40–95 °F (4–35 °C). Condition material to 65–75 °F (18–24 °C) before using. Protect from freezing.
Flash Point	212 °F
Solid Content	50 % (silane modified siloxane polymer)

Active Content	Active level: 10 % Solids: 10 %	(ASTM D-5095) % Non volatiles
Volatile organic compound (VOC) content	211 g/l 46 g/l as diluted	
Viscosity	Approximately 5–20 cps.	

TECHNICAL INFORMATION

Permeability to Water Vapor	Water Vapor Transmission	100 %	NCHRP 244 Series II
Water Absorption	Water Absorption	0.97%	Federal Spec SSW - 110C
	Reduction in Water Absorption	91%	NCHRP 244 Series II
Rapid Chloride Permeability	Reduction in Cl ion intrusion	90%	NCHRP 244 Series II

APPLICATION INFORMATION

Coverage	100–250 ft ² /gal., (diluted concentrate) depending on porosity of substrate. For proven results against chloride-ion intrusion, 125 ft ² /gal. is recommended.
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APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Before applying Sikagard®-701 W, be sure surface is clean and sound. The best impregnation is achieved on a dry, very absorbent substrate. Remove all grease, curing compounds, surface treatments, coating, oils, etc.

Preparation Work: Concrete and masonry surfaces, sandblast, high pressure water blast or use other mechanical means.

MIXING

Mix Ratio: 1 gal: 4 gal. tap water yields 5 gals. of sealer. Dilute Sikagard®-701 W concentrate with tap water in an appropriately sized mixing container. Mix with a low speed (400–600 rpm) drill with Sika paddle or comparable drum mixer until uniformly blended. Make sure paddle is completely covered so as not to entrain air. For best results, Sikagard®-701 W should be remixed if unused 24 hours after blending with water.

APPLICATION

Apply by roller, brush (horizontal surfaces), or spray. Any pooling of water repellent indicates overdosing on a dense substrate while rapid absorption indicates a porous substrate. Variations in concentration down to 8:1 for dense substrates or coverage area, and/or multiple wet-on-wet applications for porous substrates may be utilized to achieve optimal substrate treatment. Preliminary site test application is recommended to

determine effective coverage and performance.

Maximum water repellency is generally realized in 72 hours, but may take longer depending on surface and atmospheric conditions.

CLEANING OF TOOLS

Clean all tools and application equipment with clean water immediately after use. Hardened / cured material can only be mechanically removed.

LIMITATIONS

- Adjacent surfaces such as window frames, glass, stainless steel, aluminum, etc., must be masked before application.
- Do not apply at a temperature below 40 °F.
- Do not apply when substrate temperature exceeds 120 °F.
- Material is not recommended for below-grade waterproofing.
- Do not apply through standing water.
- Material is not intended to seal visible cracks or crevices from moisture intrusion.
- Material is not intended for waterproofing under hydrostatic pressure.
- Performance and penetration depth are dependent upon the surface composition.
- Do not use on green concrete.
- **When over-coating:** an on-site adhesion test is essential to determine actual compatibility.
- Sikagard® 701W is not a carbonation barrier.

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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