Product Data Sheet Edition 12.07.2015 Sikagard[®] 701W

Sikagard[°] 701W



Solvent-free, siloxane emulsion concentrate

Description	Sikagard [®] 701W 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 for- mulated to seal absorbent cementitious surfaces and other masonry substrates.	
Where to Use	 When diluted, use Sikagard[®] 701W 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 chlorrides. 	
Advantages	 Sikagard[®] 701W is both an economical and simple-to-use sealer. Because of its unique ability to decrease water and chloride intrusion, Sikagard[®] 701W helps reduce the danger of rebar corrosion. Sikagard[®] 701W: 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. 	
Coverage	100-250 ft²/gal., (diluted concentrate) depending on porosity of substrate. For proven results against chloride-ion intrusion, 125 ft²/gal. is recommended.	
Packaging	5 gal. pail.	

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	1 year in original, unopened containers (undiluted).
Storage	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°- 24°C) before using. Protect from freezing.
Color	white/opaque liquid
Mix Ratio	1 gal: 4 gal. tap water yields 5 gals. of sealer.
Viscosity	Approximately 5-20 cps.
% solids	50% (silane modified siloxane polymer)
% Non volatiles (ASTM D-5095)	Active level: 10% Solids: 10%
VOC	211 g/l 46 g/l as diluted
Flash Point	212°F
NCHRP244 Report Series 2 Test	
Reduction in Water Absorption	91%
Water Vapor Transmission	100%
Reduction in CI ion intrusion	90%
Federal Spec SSW - 110C	Water absorption 0.97%



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How to Use	
Surface Preparation	Before applying Sikagard° 701W, 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	Dilute Sikagard [®] 701W 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 [®] 701W 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 gener- ally realized in 72 hours, but may take longer depending on surface and atmospheric conditions.
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.

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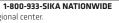
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