BUILDING TRUST

PRODUCT DATA SHEET

Sikagard® H 1001

(formerly MProtect H 1001)

HIGH-PERFORMANCE, CLEAR, BREATHABLE, 100% SILANE REACTIVE PENETRATING SEALER

PRODUCT DESCRIPTION

Sikagard® H 1001 is a clear, breathable, high-performance, 100% silane reactive penetrating sealer that achieves the highest depth of penetration with an oleophobic additive for protecting new and existing concrete surfaces by reducing staining caused by motor oils, grease, and food.

USES

- Interior and exterior
- Horizontal only
- Above grade
- Stadiums
- Food courts
- Plazas
- Parking garages

Substrates

- Concrete

CHARACTERISTICS / ADVANTAGES

- Oleophobic additive reduces staining caused by motor oils, grease, and food
- Protects against chloride ion penetration
- Excellent depth of penetration
- Breathability allows interior moisture to escape without damaging the sealer
- Solvent based, excellent for cold weather applications
- Protects structure from damage caused by wind-driven rain
- Does not alter surface appearance
- The surface sealer helps reduce efflorescence, atmospheric staining, and mildew
- Superior water repellence so it penetrates deeply and chemically reacts within the pores of concrete to form a long-lasting water-repellent surface
- Abrasion resistant so it provides long-lasting protection to horizontal substrates subject to traffic abrasion, such as bridge decks and highway surfaces

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	100% silane — with an oleophobic additive.	
Packaging	5 gallon (18.9 L) pails 55 gallon (208 L) drums	
Appearance / Color	Clear Surface appearance after application: Unchanged	
Shelf Life	18 months when properly stored	
Storage Conditions	Store in unopened containers in a clean, dry area between 35 and 110° F (2 and 43° C). Keep from freezing.	
Flash Point	165 ° F (62.7 ° C)	(SETA)

TECHNICAL INFORMATION

Penetration Depth	0.20 in (5 mm) average depth, depending upon substrate		
Water Absorption	**Water weight gain**		
	250 ft2/gal (6.1 m2/L)	90% reduction	(NCHRP 244 Series II-cube test)
	400 ft2/gal (9.8 m2/L)	85% reduction	
Rapid Chloride Permeability	**Absorbed chloride**		
	250 ft2/gal (6.1 m2/L)	96% reduction	(NCHRP 244 Series II-cube test)
	400 ft2/gal (9.8 m2/L)	87% reduction	
	98% reduction - exceeds criteria		(NCHRP 244 Series IV - Southern climate)

APPLICATION INFORMATION

Coverage	250–400 ft²/gallon (6–10 m²/L) Coverage may vary greatly with the porosity of the substrate; extremely porous substrate may require two coats. Perform test panels to ensure desired results and coverage rates.
Drying Time	Typical drying time for Sikagard® H 1001 is 4-6 hours at 70° F (21° C) and 50% relative humidity. Cooler temperatures or higher relative humidity can extend the drying time.

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.

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

- Do not apply during inclement weather or when inclement weather is anticipated within 12 hours.
- To prevent damage to nearby shrubbery and landscaping, cover or protect with drop cloth.
- Variations in the texture and porosity of the substrate will affect the coverage and performance of the product.
- Protect asphalt-based products such as roofing materials or plastic products from overspray.
- Sikagard® H 1001 will not inhibit water penetration through unsound or cracked surfaces or surfaces with defective flashing, caulking, or structural waterproofing.
- Spills should not be allowed to sit for extended periods of time. Clean all spills in a timely manner.
- Make certain the most current versions of the product data sheet and SDS are being used.
- Proper application is the responsibility of the user. Field visits by Sika personnel are for the purpose of making technical recommendations only and are not for supervising or providing quality control on the jobsite.

SUBSTRATE PREPARATION

1. Verify substrate has properly cured. Concrete should obtain 80% of design strength, typically achieved in 14–28 days.
2. Clean all surfaces of all sand, surface dust, dirt, oil, grease, chemical films or coatings, and other contaminants prior to application. Power wash, sandblast, or shotblast as necessary to achieve the desired surface condition.
3. Air, material, and surface temperatures should be 40° F (4° C) or higher during application. Sikagard® H 1001 may be applied to frost-free surfaces as low as 20° F (-7° C). Do not apply sealer when temperatures are expected to fall below 20° F (-7° C) within 12 hours or when rain is expected within 4 hours following application. Sikagard® H 1001 may be applied to slightly damp surfaces.
4. Crack control, caulking, patching, and expansion joint sealants should be installed prior to application of the sealer. Allow adequate curing time following the sealant manufacturer's recommendations. Following the application, remove the excess product that might pond on a concave sealant joint.
5. Paint line striping before the application of Sikagard® H 1001.

APPLICATION

1. Test a small area of the surface (minimum 5 by 5 ft [1.5 by 1.5m]) before general application to ensure desired performance results, aesthetics, and coverage rates and to verify application technique. Allow 5-7 days for the product to fully react before evaluation. Contact Technical Service for details.
2. Stir material thoroughly before and during application.
3. Apply to saturation using low-pressure non-atomizing spray or pouring, followed by a squeegee or a broom for even distribution.

CLEANING OF TOOLS

Clean equipment with xylene or SikaSwell®-990.

LEGAL DISCLAIMER

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

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES.**

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