

## PRODUCT DATA SHEET

# Sikagard® H 1001

(formerly MProtect H 1001)

HIGH PERFORMANCE, PENETRATING WATER, OIL, AND STAIN REPELLENT SEALER

### PRODUCT DESCRIPTION

Sikagard® H 1001 is a clear, breathable, high-performance, 100% silane 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

### PRODUCT INFORMATION

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



## TECHNICAL INFORMATION

<b>Penetration Depth</b>	0.20 in (5 mm) average depth, depending upon substrate		
<b>Water Absorption</b>	<b>Water weight gain</b>		
	250 ft <sup>2</sup> /gal (6.1 m <sup>2</sup> /L)	90% reduction	(NCHRP 244 Series II-cube test)
	400 ft <sup>2</sup> /gal (9.8 m <sup>2</sup> /L)	85% reduction	
<b>Rapid Chloride Permeability</b>	<b>Absorbed chloride</b>		
	250 ft <sup>2</sup> /gal (6.1 m <sup>2</sup> /L)	96% reduction	(NCHRP 244 Series II-cube test)
	400 ft <sup>2</sup> /gal (9.8 m <sup>2</sup> /L)	87% reduction	
	98% reduction - exceeds criteria		(NCHRP 244 Series IV - Southern climate)

## APPLICATION INFORMATION

<b>Coverage</b>	250–400 ft <sup>2</sup> /gallon (6–10 m <sup>2</sup> /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.
<b>Drying Time</b>	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](http://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.

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**Sika Corporation**

201 Polito Avenue  
Lyndhurst, NJ 07071  
Phone: +1-800-933-7452  
Fax: +1-201-933-6225  
[usa.sika.com](http://usa.sika.com)



**Product Data Sheet**

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