

## PRODUCT DATA SHEET

# Sikagard<sup>®</sup>-200 Enviroseal

(formerly MProtect H 200)

CLEAR, WATER-BASED 20% SILANE PENETRATING SEALER

### PRODUCT DESCRIPTION

Sikagard<sup>®</sup>-200 Enviroseal is a clear, water-based 20% alkylalkoxysilane penetrating sealer. It protects against moisture and chloride intrusion.

### USES

- Horizontal and vertical
- Exterior or interior
- Above grade

#### Substrates

- Concrete substrates:
  - Architectural
  - Exposed aggregate
  - Glass-fiberreinforced
  - Precast
  - Cast in place/precast
  - Silica fume
- Hard burnt brick
- Stucco
  - Troweled/smooth
  - Integrally colored
- Brick pavers
- Tile (unglazed)

### PRODUCT INFORMATION

<b>Chemical Base</b>	water-based alkylalkoxysilane sealer.
<b>Active content</b>	20%
<b>Packaging</b>	5 gallon (19 L) pails 54 gallon (205 L) drums
<b>Shelf Life</b>	18 months when properly stored

### CHARACTERISTICS / ADVANTAGES

- Does not alter surface appearance
- Breathable to allow interior moisture to escape without damaging sealer
- One component -for ease of application
- Protects against damage from moisture intrusion and chloride ion penetration

### APPROVALS / STANDARDS

- USDA acceptance on nonfood-contact areas
- Alberta DOT, Type 1a

<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>Color</b>	Milky white; dries clear	
<b>Density</b>	8.16 lb/gal	
	<b>Specific Gravity</b>	
	0.98 kg/L	
<b>Flash Point</b>	> 200 ° F (> 93 ° C)	(ASTM D 3278, SETA)
<b>Solid content by mass</b>	20%	

## TECHNICAL INFORMATION

<b>Solar Reflectance</b>	<b>Surface appearance after application</b>	
	Unchanged	(Federal Reflectance Test Method 6121)
<b>Penetration Depth</b>	0.14 in (3.6 mm) average depth, depending on the substrate	
<b>Water Absorption</b>	0.53% over 48 hours	(ASTM C 642)
<b>Water Vapor Transmission</b>	102%	(OHD-L-35)
<b>Rapid Chloride Permeability</b>	<b>Absorbed Chloride</b>	
	92% reduction – exceeds criteria	(NCHRP 244 Series II-cube test)
	99% reduction – exceeds criteria	(NCHRP 244 Series IV - Southern climate)
	<b>Water Weight Gain</b>	
	86% reduction – exceeds criteria	(NCHRP 244 Series II-cube test)
<b>Rapid Chloride Permeability</b>	Criteria of 1.5 at 1/2" (13 mm)	< 0.27 lb/yd <sup>3</sup> (< 0.16 kg/m <sup>3</sup> ) (AASHTO T 259 and T 260)
	Criteria of 0.75 at 1" (25 mm)	0.00 lb/yd <sup>3</sup> (0.00 kg/m <sup>3</sup> )
<b>Water resistance</b>	<b>Water repellent performance</b>	
	85.6%	(Alberta Transportation and Utilities Procedures - Type 1a)
<b>Freeze Thaw De-icing Salt Resistance</b>	<b>Scaling resistance rating</b>	
	0–No Scaling, non-air-entrained concrete, 100 cycles treated	(ASTM C 672)

## APPLICATION INFORMATION

<b>Coverage</b>	Concrete: 100–175 ft <sup>2</sup> /gal (2.4–4.3 m <sup>2</sup> /L) Brick: 100–175 ft <sup>2</sup> /gal (2.4–4.3 m <sup>2</sup> /L) Stucco: 60–100 ft <sup>2</sup> /gal (1.5–2.4 m <sup>2</sup> /L) Always apply a test area to determine actual coverage rates. Coverage rates will vary greatly with the porosity of the substrate.
<b>Drying Time</b>	Typical drying time for Sikagard®-200 Enviroseal is 4 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

- Keep material from freezing.
- Do not dilute Sikagard®-200 Enviroseal.
- Water repellents perform best when applied to a dry substrate, when power washing is performed allow for a proper dry time before applying the water repellent.
- 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.
- Protect asphalt-based products such as roofing materials or plastic products from overspray.
- Sikagard®-200 Enviroseal may leave a temporary slippery surface for up to several hours after application. Therefore, do not reopen traffic-bearing surfaces until the treated surface is dry.
- Variations in the texture and porosity of the substrate will affect the coverage and performance of the product.
- Sikagard®-200 Enviroseal will not inhibit water penetration through unsound or cracked surfaces, or surfaces with defective flashing, caulking, or structural waterproofing.
- Line striping can be done after the application of the sealer.
- 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 the substrate has properly cured. Concrete should obtain 80% of design strength, typically achieved within 14–28 days.
2. Clean all surfaces of all sand, surface dust and dirt, oil, grease, chemical films and coatings, and other contaminants prior to application. Power wash, sandblast, or shot blast as necessary to achieve the desired surface condition.
3. Air, material, and surface temperatures should be 40° F (4° C) or higher during application. Do not apply sealer when temperatures are expected to fall below 40° F (4° C) within 12 hours.
4. A dry surface is suggested for maximum penetration of sealer; however, surfaces to be treated can be slightly damp. Do not apply Sikagard®-200 Enviroseal if standing water is visible on the surface to be treated.
5. Crack control, caulking, patching, and expansion joint

sealants can be installed before or after the application of the sealer. Allow a minimum of 6–12 hours of curing time for caulking and sealant materials (or until they have skinned over) before applying Sikagard®-200 Enviroseal. Following the application, remove the excess product that might pond on a concave sealant joint.

## APPLICATION

1. Test a small area of the surface (generally a 5 by 5 ft [1.5 by 1.5 m] section) before starting the general application of any clear, penetrating sealers to ensure desired performance results, aesthetics, and coverage rates. Allow 5–7 days for the product to fully react before evaluating.
2. Stir material thoroughly before and during application.
3. Low-pressure non-atomizing spray application is recommended.
4. On vertical surfaces, apply from the bottom up. Flood surfaces using enough material to get an 8–12" (20–30 cm) material rundown.
5. For horizontal surfaces, apply to saturation. If necessary, follow with a squeegee or a broom for even distribution.

## CLEANING OF TOOLS

Clean equipment and tools with hot soapy water. Overspray can be cleaned immediately with hot soapy water. Dried residue can be cleaned with a mild citrus-based cleaner or very hot water, then scrubbed with a soft-bristle brush.

## 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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**Product Data Sheet**

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