BUILDING TRUST

PRODUCT DATA SHEET

Sikagard®-200 Enviroseal

(formerly MProtect H 200)

CLEAR, WATER-BASED 20% SILANE REACTIVE PENETRATING SEALER

PRODUCT DESCRIPTION

Sikagard®-200 Enviroseal is a clear, water-based 20% alkylalkoxysilane reactive 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)

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

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.

APPROVALS / STANDARDS

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

PRODUCT INFORMATION

Chemical Base	water-based alkylalkoxysilane sealer.
Packaging	5 gallon (19 L) pails 54 gallon (205 L) drums
Color	Milky white; dries clear
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.
Density	8.16 lb/gal **Specific Gravity** 0.98 kg/L
Flash Point	> 200 ° F (> 93 ° C) (ASTM D 3278, SETA)
Solid content by mass	20%
Active content	20%

TECHNICAL INFORMATION

Freeze Thaw De-Icing Salt Resistance	**Scaling resistance rating** 0–No Scaling, non-air-entrained concrete, 100 cycles treated concrete	(ASTM C 672)
Water Vapor Transmission	102%	(OHD-L-35)
Penetration Depth	0.14 in (3.6 mm) average depth, depending on the substrate	
Rapid Chloride Permeability	**Absorbed Chloride** 92% reduction – exceeds criteria 99% reduction – exceeds criteria **Water Weight Gain** 86% reduction – exceeds criteria	 (NCHRP 244 Series II-cube test) (NCHRP 244 Series IV - Southern climate) (NCHRP 244 Series II-cube test)
Solar Reflectance	**Surface appearance after application** Unchanged	(Federal Reflectance Test Method 6121)
Water Absorption	0.53% over 48 hours	(ASTM C 642)
Water resistance	**Water repellent performance** 85.6%	(Alberta Transportation and Utilities Procedures - Type 1a)
Rapid Chloride Permeability	Criteria of 1.5 at 1/2" (13 mm) — < 0.27 lb/yd³ (< 0.16 kg/m³) Criteria of 0.75 at 1" (25 mm) — 0.00 lb/yd³ (0.00 kg/m³)	(AASHTO T 259 and T 260)

APPLICATION INFORMATION

Coverage	Concrete: 100–175 ft^2/gal (2.4–4.3 m^2/L) Brick: 100–175 ft^2/gal (2.4–4.3 m^2/L) Stucco: 60–100 ft^2/gal (1.5–2.4 m^2/L) Always apply a test area to determine actual coverage rates. Coverage rates will vary greatly with the porosity of the substrate.
Drying Time	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 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. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at https://usa.sika.com/en/about-us/terms-conditions-of-sale.html or by calling 1-800-933-7452.

Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com