SECTION 07 19 16

Sikagard® 185 Enviroseal

NOTES TO SPECIFIERS:

PLEASE UPDATE YOUR MASTER SPECIFICATIONS TO REFLECT THE COMPANY AND PRODUCT NAME CHANGES.

THE PURPOSE OF THIS GUIDE SPECIFICATION IS TO ASSIST THE SPECIFIER IN DEVELOPING A PROJECT SPECIFICATION FOR THE USE OF SIKA PRODUCTS. THIS GUIDE DOCUMENT HAS BEEN PREPARED TO BE PART OF A COMPLETE PROJECT MANUAL. IT IS NOT INTENDED TO BE A “STAND ALONE” DOCUMENT, AND IT IS NOT INTENDED TO BE COPIED DIRECTLY INTO A PROJECT MANUAL.

THIS GUIDE SPECIFICATION WILL NEED TO BE CAREFULLY REVIEWED FOR APPROPRIATENESS FOR THE GIVEN PROJECT AND EDITED ACCORDINGLY TO COMPLY WITH PROJECT-SPECIFIC REQUIREMENTS.

1. GENERAL
   * + 1. SUMMARY
          1. Section Includes:

edit note: Delete application not required.

Water based Silane/Siloxane water repellent sealer for split-faced, lightweight and standard CMU as scheduled.

edit note: Delete sections below not relevant to this project; add others as required.

* + - * 1. Related Sections:

Section 04 21 00 – Masonry Assemblies Unit Masonry.

* + - 1. SUBMITTALS
         1. Comply with Section [01 33 00] [ \_\_ \_\_ \_\_ ].
         2. Product Data: Submit manufacturer's technical bulletins and MSDS on each product.
         3. Submit list of project references as documented in this Specification under Quality Assurance Article. Include contact name and phone number of person charged with oversight of each project.
         4. Quality Control Submittals:

Provide protection plan of surrounding areas and non-work surfaces.

* + - 1. QUALITY ASSURANCE
         1. Comply with Section [01 40 00] [ \_\_ \_\_ \_\_ ].
         2. Qualifications:

Manufacturer Qualifications: Company with minimum 15 years of experience in manufacturing of specified products and systems.

Manufacturer Qualifications: Company shall be ISO 9001:2000 Certified.

Applicator Qualifications: Company with minimum of 5 year’s experience in application of specified products and systems on projects of similar size and scope and is acceptable to product manufacturer.

Successful completion of a minimum of 5 projects of similar size and complexity to specified Work.

edit note: A test application is recommended to determine appearance, coverage rate, and performance. Allow 2 to 4 weeks prior to testing for the product to fully react. Delete if not required.

* + - * 1. Field Sample:

Install at Project site or pre-selected area of building an area for field sample, as directed by Architect.

Provide mock-up of at least 25 square feet (2.3 sq.m) to include surface preparation, sealant joint, and juncture details and allow for evaluation of repellent performance and finish.

Conduct RILEM test on cured field sample. Allow product to fully cure 5 to 7 days before testing. Adjust application until required repellent performance is achieved.

Apply material in strict accordance with manufacturer’s written application instructions.

Manufacturer’s representative or designated representative will review technical aspects; surface preparation, application, and workmanship.

Field sample will be standard for judging workmanship on remainder of Project.

Maintain field sample during construction for workmanship comparison.

Do not alter, move, or destroy field sample until Work is completed and approved by Architect.

Obtain Architect’s written approval of field sample before start of material application, including approval of aesthetics, color, texture, and appearance.

* + - 1. DELIVERY, STORAGE, AND HANDLING
         1. Comply with Section [01 60 00] [ \_\_ \_\_ \_\_ ].
         2. Comply with manufacturer’s ordering instructions and lead-time requirements to avoid construction delays.
         3. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
         4. Store in unopened containers in a cool, dry area. Keep material from freezing in the container; do not store below 35 degree F (2 degree C) or above 100 degrees F (43 degrees C).
      2. PROJECT CONDITIONS
         1. Environmental Requirements:

Minimum application temperature is 40 degrees F (4 degrees C) and rising.

Do not apply in rain or when inclement weather is expected within 12 hours. Do not apply below 40 degrees F (4 degrees C) or when temperatures are expected to fall below 40 degrees F (4 degrees C) within 4 hours.

1. PRODUCTS
   * + 1. MANUFACTURERs
          1. Subject to compliance with requirements, provide products from the following manufacturer:

Sika Corporation, 201 Polito Avenue, Lyndhurst NJ 07071. Toll Free 800-933-SIKA (7452), www.sikausa.com.

No substitutions without prior written approval by the Architect.

* + - * 1. A water-based, clear, silane/siloxane sealer designed to provide protection for split-faced, lightweight and standard CMU.

Acceptable Product: Sika Sikagard-185 Enviroseal

* + - * 1. Water repellent material shall have the following minimum performance:

Flash point: > 212 degree F (> 100 degree C) per ASTM D 3278.

VOC content: < 2.50 lb/gl (< 300 g/L) per EPA Method 24.

Water repellency in water absorption: 95 percent reduction in weight gain per ASTM C 140.

Water repellency in leakage on block wall: 99 percent reduction in weight gain per ASTM C 514.

1. eXECUTION
   * + 1. EXAMINATION
          1. Comply with Section [01 70 00] [\_\_\_\_\_\_\_].
       2. SURFACE PREPARATION

edit note: Surface cleanliness is critical for blemish or stain-free results, especially on light colored or white surfaces.

* + - * 1. Surfaces shall be clean, structurally sound, and fully cured (28 days). Remove all dust, dirt, paint, bitumens, efflorescence, oil, pollution deposits, and curing, forming, and parting compounds.
        2. Complete caulking, pointing, and restoration work before applying water repellent. Allow to cure.
        3. Treat and remove alkali and efflorescence with proper neutralizing compound recommended by concrete or brick supplier or distributor.
        4. Protect plant life and surfaces to remain uncoated during application. Use drop cloths or masking as required.
        5. Using cardboard template, temporarily cover windows during application of sealer or follow requirements in Cleaning Article.
      1. application
         1. Surface, air, and material temperatures shall be 40-degree F (4 degree C) or above prior to and during the application. Do not apply if rain is expected within 12 hours following application.
         2. Stir product thoroughly prior to and periodically during use. Do not dilute.
         3. Apply by low-pressure, non-atomizing spray starting from the bottom up.
         4. Apply a mist coat immediately prior to application to help break surface tension, ensuring maximum penetration of the sealer.
         5. Flood surfaces to saturation by applying from the bottom up with a controlled 8 to 10 inches (20 cm) material rundown to ensure maximum penetration into substrate.
         6. Provide 2 coat applications on lightweight concrete block. Application of the second coat shall proceed with a wet-on-wet application.
      2. CLEANING
         1. Clean equipment and tools with hot soapy water. Overspray can be cleaned immediately with hot, soapy water. Dried residue can be cleaned with citrus degreaser.
         2. Wipe windows with dampened cloth or sponge immediately following application of sealer.
         3. Clean up and properly dispose of debris remaining on Project site related to application.
         4. Remove temporary coverings and protection from adjacent Work areas.
      3. PROTECTION
         1. Protect system from damage during construction

END OF SECTION

Disclaimer-

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Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Technical Data Sheet, product label and Material Safety Data Sheet which are available at www.sikausa.com or by calling (800) 933-7452. Nothing contained in any Sika 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 Technical Data Sheet, product label and Material Safety Data Sheet prior to product use.