SECTION 07 19 23

Sikagard 277 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 brick wall masonry as scheduled.

Water-based silane/siloxane water-repellent sealer for portland cement stucco 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.

Section 09 24 00 – Portland Cement Plastering.

* + - 1. SUBMITTALS
         1. Comply with Section [01 33 00] [\_\_ \_\_ \_\_].
         2. Product Data: Submit manufacturer's technical data sheets and LEED product information 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 [0140 00] [\_\_ \_\_ \_\_].
         2. Qualifications:

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

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

Applicator Qualifications: Company with minimum of 5 years experience in application of specified products 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 m2) 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 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 clean, dry area between 35- and 110-degrees F (2 and 43 degrees C).
      2. PROJECT CONDITIONS
         1. Environmental Requirements:

Minimum air, material, and surface temperature is 40 degrees F (4 degrees C).

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

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. Specifications and Drawings are based on manufacturer's proprietary literature from Sika. Other manufacturers shall comply with minimum levels of material and detailing indicated in Specifications or on Drawings. Architect will be sole judge of appropriateness of substitutions.
      1. MATERIALS
         1. High-performance, water-based, VOC-compliant, clear silane/siloxane sealer used for dense, vertical masonry brick surfaces.

Acceptable Product: Sikagard 277 Enviroseal (Formerly MasterProtect H 177) for Brick.

* + - * 1. Sealer shall have the following minimum performance:

Flash Point, ASTM D3278: Greater than 212 degrees F (100 degrees C).

Leakage on Brick Wall, ASTM E514: Greater than 94.8 percent reduction.

Moisture-Vapor Transmission Rate, ASTM D1653, 75 degrees F (24 degrees C):

49.8 g/sf/24 hours.

86 percent of untreated substrate.

Accelerated Weathering, QUV, 1,500 hours: No change.

Solids and Active Ingredients: 12 percent by weight.

Specific Gravity: 1.0.

Density: 8.3 lbs per gal.

Penetration, average depth, depending upon substrate: 1/16 to 3/8 inch (1.6 to 9.5 mm).

VOC Content: Less than 2.09 lbs per gal (250 g/L), less water and exempt solvents.

1. eXECUTION
   * + 1. EXAMINATION
          1. Comply with Section [01 70 00] [\_\_ \_\_ \_\_].
       2. SURFACE PREPARATION
          1. Protection: Protect plant life and surfaces to remain uncoated during application. Use drop cloths or masking as required.
          2. Prepare surfaces in accordance with manufacturer’s instructions.

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

* + - * 1. Surfaces shall be clean, dry, structurally sound, and free of alkali and efflorescence. Remove dust, dirt, oil, grease, chemical films, and other contaminants.
        2. Complete caulking, pointing, and restoration work before applying sealer.
      1. application
         1. Apply sealer in accordance with manufacturer’s instructions.
         2. Mix material thoroughly before and during application. Do not dilute.
         3. Apply a mist coat of sealer immediately before application to help break surface tension, ensuring maximum penetration of sealer.
         4. Flood surfaces to saturation by applying from the bottom up with controlled 8 to 10-inch (20-cm) material rundown to ensure maximum penetration into substrate.
      2. PROTECTION
         1. Protect sealer from damage during construction.

END OF SECTION

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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.