**SECTION 07 91 00**

**EXTERIOR WALL JOINT SEALS**

**Sika Emseal**

This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by the following method in Microsoft Word:

Display the FILE tab on the ribbon, click OPTIONS, then DISPLAY. Select or deselect HIDDEN TEXT.

This guide specification section has been prepared by Sika Emseal for use in the preparation of a project specification section covering preformed joint seals for use expansion joints in exterior wall assemblies.

The following should be noted in using this specification:

Hypertext links to specific websites are included after manufacturer names and names of organizations whose standards are referenced within the text, to assist in product selection and further research. Hypertext links are contained in parenthesis and shown in blue, e.g.:

[(www.astm.org](http://(www.astm.org))

Items requiring user input are enclosed within brackets and included as red text, e.g.:

Section [09 00 00] [\_\_ \_\_ \_\_.]

Optional paragraphs are separated by an "OR" statement included as red text, e.g.:

\*\*\*\* OR \*\*\*\*

Sustainable requirements are included for projects requiring LEED certification, and are included as green text. For additional information on LEED, visit the U.S. Green Building Council website at [www.usgbc.org](http://www.usgbc.org).

For assistance on the use of the products in this section, contact Sika Emseal by calling 800-526-8365, by email at [techinfo@emseal.com](mailto:techinfo@emseal.com), or visit their website at [www.emseal.com](http://www.emseal.com).

1. **GENERAL**
   1. SUMMARY
      1. Section Includes:
         1. Preformed, precompressed, expanding foam joint seals for expansion joints in exterior walls.
      2. Related Sections:
         1. Division 01: Administrative, procedural, and temporary work requirements.
   2. ADMINISTRATIVE REQUIREMENTS

Retain the following for a pre-installation conference to review the work of this section prior to installation.

* + 1. Pre-Installation Conference:
       1. Convene at Project site [2] [\_\_] weeks prior to beginning work of this Section.
       2. Attendance: [Architect,] [Contractor,] [Construction Manager,] joint seal installer, and related trades
       3. Review and discuss:
          1. Joint seal manufacturer’s requirements, project conditions, allowable structural movement at joints, and protection of completed work.
          2. Transitions in plane and direction, and requirement for continuity of seal through watertight transitions from wall expansion joint to other interfacing expansion joint systems at adjacent construction.
  1. SUBMITTALS
     1. Action Submittals:
        1. Shop Drawings:
           1. Indicate joint locations, dimensions, and adjacent construction.
           2. Provide details for transitions in plane and direction for continuity of seal through watertight transitions from wall expansion joint to other interfacing expansion joint systems at adjacent construction.
        2. Product Data: Material description and application instructions.
        3. Samples:
           1. Minimum [2 x 2] [\_\_ x \_\_] inch joint seal samples showing available colors.
           2. Minimum [6] [\_\_] inch long samples [of each joint seal].
     2. Informational Submittals:
        1. Manufacturer’s certification that:
           1. Products are capable of withstanding temperature of 150 degrees F (65 degrees C) for 3 hours while compressed to minimum of movement capability dimension without evidence of bleeding of impregnation medium from material.
           2. Same material after heat stability test and after cooling to room temperature will self-expand to maximum of movement capability dimension within 24 hours at 68 degrees F (20 degrees C).

Retain the following for projects requiring sustainable documentation.

* + 1. Sustainable Design Submittals: Refer to Division 01.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications:
        1. Minimum [10] [15] [\_\_] years [documented] experience in production of specified materials.
     2. Installer Qualifications: Minimum [2] [\_\_] years [documented] experience in work of this Section.
  2. DELIVERY, STORAGE AND HANDLING
     1. In accordance with manufacturer’s instructions.

1. **PRODUCTS**
   1. MANUFACTURERS
      1. Contract Documents are based on products by Sika Emseal, 800-526-8365, [www.emseal.com](http://www.emseal.com).
      2. Substitutions: [Refer to Division 01.] [Not permitted.]
   2. MATERIALS

Retain the following for a primary seal for grindless installation in retrofit expansion joints. This joint seal is suitable for use in joints from 1/2 inch to 1 ½ inches in width.

* + 1. Exterior Wall Joint Seal:
       1. Source: SafeReseal by Sika Emseal.
       2. Description: STPE coated, ultraviolet resistant, watertight, primary wall seal with factory-applied adhesive on one side.
       3. Form: Precompressed to less than nominal material size for installation into designed joint size equal to material nominal size.
       4. Movement capability: Plus and minus 50% (total 100%) of nominal material size.
       5. R-value: 2.15 per inch depth at nominal joint size compression, tested to ASTM C518.
       6. STC rating: 52 in STC 56 wall, tested to ASTM E90.
       7. OITC rating: 38 in OITC 38 wall, tested to ASTM E90.
       8. Color: Paintable - Limestone
       9. Sealant: Mounting band field applied to substrate face, furnished by joint seal manufacturer, in same material and color as used in factory coating.

1. **EXECUTION**
   1. PREPARATION
      1. Clean joints thoroughly; remove loose and foreign matter that could impair adhesion or performance.
   2. INSTALLATION
      1. Install joint seal in accordance with Sika Emseal instructions and approved Shop Drawings.
      2. Remove joint seal from precompressed packaging, immediately insert into joint, and allow to expand.
      3. Use temporary retainers if required to maintain joint seals in position until expansion is complete.

A joint seals schedule can be helpful if multiple types of joint seals are required. The following may assist in developing such a schedule. Coordinate with products selected under Part 2.

* 1. JOINT SEALS SCHEDULE
     1. Exterior Wall Joint Seals at [\_\_\_\_]: [SafeReseal by Sika Emseal.] [\_\_\_\_.]

END OF SECTION