

GUIDE SPECIFICATION FOR SOF-SEAL: COLD APPLIED LOW MODULUS HORIZONTAL JOINT SEALANT

SECTION 02760

PAVEMENT JOINT SEALANT

Specifier Notes: This guide specification is written according to the Construction Specifications Institute (CSI) Format. The section must be carefully reviewed and edited by the Architect or Engineer to meet the requirements of the project. Coordinate this section with other specification sections and the drawings.

Specifier Notes: W.R. MEADOWS SOF-SEAL is a premium-grade, pourable, two-component, horizontal sealant composed of a special combination of polymeric compounds that provides outstanding performance in both Portland cement and asphalt concrete. It cures to a soft, highly-flexible, rubber-like material that is capable of maintaining a sealed joint or crack over a wide temperature range. Cold-Applied SOF-SEAL offers excellent elongation, high resiliency, tenacious bonding power and excellent longevity. SOF-SEAL is a versatile pavement sealant suitable for both large or small-scale sealing. It is excellent for crack repair and preventative maintenance sealing projects. Typical applications include the sealing of expansion and contraction joints, longitudinal joints and random cracks in concrete pavements, reflective and random cracks in asphalt paving and asphalt-to-concrete shoulder joints. It is also ideal for high-sheer bridge joint applications. In addition, Cold-Applied SOF-SEAL can be used as a pitch pan sealer.

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Concrete joint and crack preparation.
- B. Application of two-component, cold-applied horizontal joint sealant.

1.02 RELATED SECTIONS

Specifier Notes: Edit the list of related sections as required for the project. List other sections dealing with work directly related to this section.

- A. Section 02740 – Asphalt Concrete Paving.
- B. Section 02750 - Portland Cement Concrete Pavements.
- B. Section 03300 - Cast-in-Place Concrete.
- C. Section 03346 - Concrete Floor Finishing.
- B. Section 07900 - Joint Sealants.

1.03 SUBMITTALS

- A. Comply with Section 01330 - Submittal Procedures.
- B. Submit manufacturer's product data and application instructions.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Store materials in a clean, cool, dry area in accordance with manufacturer's instructions.
- C. Store materials at temperatures of 55°F (13°C) or higher.
- C. Do not open pail until ready to use.
- D. Protect materials during handling and application to prevent damage or contamination.

1.05 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply sealant when air or surface temperatures are below 40°F (4°C).
- B. Do not apply sealant in wet joints.
- C. Do not apply sealant in joints subject to hydrostatic pressure.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. W.R. Meadows, Inc., PO Box 338, Hampshire, Illinois 60140-0338. (800) 342-5976. (847) 683-4500. Fax (847) 683-4544. Web Site www.wrmeadows.com.

2.02 MATERIALS

- A. Horizontal Joint Sealant: Pourable, two-component, cold-applied, horizontal joint sealant for use in concrete or asphalt.
 - 1. Performance Based Specification: Horizontal Joint Sealant shall have the following characteristics:
 - a. Application life @ 70°F (21°C): 45 minutes.
 - b. Initial Cure: 2 hours (approximate).
 - c. Penetration mm/10
 - 1) @ 77°F (25°C): 140
 - 2) @ 0°F (-18°C): 35
 - d. Flow, cm: None.
 - e. Resilience, %: 90%.
 - f. Bond Test, 3 cycles
 - 1) 200% extension @ -20°F (-29°C): Pass 3 cycles.
 - 2) 300% @ -20°F (-29°C): Pass 1 cycle.
 - 2. Proprietary Based Specification: Sof-Seal Cold Applied, Low Modulus Horizontal Joint Sealant by W.R. Meadows.

2.03 ACCESSORIES

- A. Backer Rod: KOOL-ROD or CERA-ROD manufactured by W.R. MEADOWS.
- B. Joint Filler: CERAMAR or DECK-O-FOAM manufactured by W.R. MEADOWS.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine areas to receive joint sealant. Notify Consultant if surfaces are not acceptable. Do not begin joint preparation or sealant application until unacceptable conditions have been corrected.

3.02 JOINT OR CRACK PREPARATION

- A. Ensure proper joint design practices are followed.
- B. Ensure joint width is not less than 1/4" (6.35mm) wide.
- C. Remove foreign substances, incompressibles and free water from joint opening.
- D. Ensure joints are clean and surface dry.
- E. Dust, dirt and laitance should be removed prior to application.
- F. Install backer rod or joint filler to control depth of joint sealant.
- G. Protect adjacent surfaces not designated to receive joint sealant.

3.03 APPLICATION

- A. Mix all material in both components using a wooden paddle or variable speed drill and flat blade paddle in accordance with manufacturers instructions. Do not exceed 400 rpm.
- B. Do not mix partial units.
- C. Apply joint sealant in accordance with manufacturer's instructions.
- D. Fill crack or joint completely with sealant from bottom up to prevent air entrapment.
- E. Ensure accessory materials are compatible with joint sealant and approved by manufacturer.

3.04 CLEAN UP

- A. Clean tools with Xylene or Toluene and remove masking tape before sealant cures.

END OF SECTION