

GUIDE SPECIFICATION FOR DECK-O-SEAL® 125: TWO-PART, ELASTOMERIC, POLYSULFIDE-BASED JOINT SEALANT

SECTION 13 11 00

SWIMMING POOLS

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® DECK-O-SEAL 125 two-part, pourable joint sealant is a self-leveling, polysulfide-based sealing compound. It is a non-staining sealant that cures to a firm, flexible, tear-resistant rubber. DECK-O-SEAL 125 is highly resilient and has excellent recovery characteristics, even after extended periods of compression or elongation. It has outstanding resistance to most chemicals, to all weather conditions, aging, and shrinkage. For on-the-job use, DECK-O-SEAL 125 is supplied in pre-measured 96 oz. (2.84 L) kits consisting of the base compound and a separate container of setting agent. There is enough room in the base container for introduction and mixing of the setting agent. NOTE: DECK-O-SEAL 125 is 25% firmer than regular DECK-O-SEAL.

DECK-O-SEAL 125 is used for horizontal applications. It is ideal for general purpose sealing of joints and seams subjected to high pedestrian or vehicular traffic, such as mall floors or garage floors. DECK-O-SEAL 125 offers high tensile strength and is excellent for joints in swimming pool floors. (Pool floor applications must be primed with P/G PRIMER from W. R. MEADOWS.)

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Concrete joint 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 03 30 00 - Cast-in-Place Concrete.
- B. Section 03 35 00 – Concrete Finishing.
- C. Section 07 90 00 - Joint Protection.

1.03 REFERENCES

- A. ASTM C794: Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants.
- B. ASTM C920: Standard Specification for Elastomeric Joint Sealants.
- C. CRD-C-506: Handbook for Concrete and Cement.
- D. Federal Specification A-A-1556A: Sealing Compound (Elastomeric Joint Sealant).

1.04 SUBMITTALS

- A. Comply with Section 01 33 00 - Submittal Procedures.
- B. Submit manufacturer's product data and application instructions.

1.05 QUALITY ASSURANCE

- A. Installer Qualifications: Use an installer and adequate number of skilled personnel who are thoroughly trained and experienced in joint sealing application techniques.
- B. Obtain joint sealant materials and accessories from a single manufacturer regularly engaged in manufacturing the product.
- C. Provide products which comply with all state and local regulations controlling use of volatile organic compounds (VOCs).

1.06 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. Do not open packaging until ready to use.
- D. Protect materials during handling and application to prevent damage or contamination.

1.07 ENVIRONMENTAL REQUIREMENTS

- A. Apply sealant at temperatures between 40° F and 122° F (4° C and 50° C).
- B. Do not apply sealant in joints containing free water.

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, self-leveling polysulfide based joint sealant.
 - 1. Performance Based Specification: Horizontal joint sealant shall have the following characteristics:
 - a. Consistency: Liquid, Self-Leveling.
 - b. Application time (77° F - 50% RH): 1 hour.
 - c. Tack-Free Time: 8 hours.
 - d. Linear Shrinkage: Negligible.
 - e. Shore Hardness: Shore A 30 ± 5.
 - f. Tensile Strength: 125 psi (862 KPa)
 - g. Elongation: 400%.
 - h. Peel Adhesion (ASTM C794): 20 lb./in. min. (357 g/mm).
 - 2. Proprietary Based Specification: DECK-O-SEAL 125 Two-Part, Elastomeric, Polysulfide Based Joint Sealant manufactured by W. R. MEADOWS.

2.03 ACCESSORIES

- A. Backer Rod: KOOL-ROD™ or CERA-ROD™ manufactured by W. R. MEADOWS.

- B. Joint Filler: CERAMAR® manufactured by W. R. MEADOWS.
- C. Primer System: P/G PRIMER 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.
- B. Ensure accessory materials are compatible with joint sealant and approved by membrane manufacturer.
- C. Ensure joint sealant is not in direct contact with asphaltic concrete pavements or asphaltic joint fillers.

3.02 JOINT PREPARATION

- A. Ensure proper joint design practices are followed.
- B. Remove foreign substances, incompressibles, and free water from joint opening.
- C. Concrete joints must be clean and dry.
- D. Dust, dirt, and laitance should be removed prior to application.
- E. Install backer rod or joint filler to control depth of joint sealant.
- F. Protect adjacent surfaces not designated to receive joint sealant.

3.03 PRIMING

Specifier Notes: DECK-O-SEAL 125 adheres well to unprimed concrete; however, P/G PRIMER is recommended for optimum adhesion. P/G PRIMER is *required* for all joints subjected to hydrostatic pressure, submerged underwater, and/or joints over 1" in width.

- A. Mix all material in both containers.
- B. Pour part A into part B and mix thoroughly with a clean wooden or metal paddle for a minimum of 3-4 minutes.
- C. Scrape container sides and bottom for complete integration.
- D. Apply primer system to properly prepared joint surfaces by brush, depositing a light, continuous film.
- E. Apply an additional coat to very soft, porous surfaces.
- F. Allow primer to become tacky to the touch prior to application of the joint sealant.

3.04 APPLICATION

- A. Mix the setting agent and base components separately using a wooden paddle or slow speed drill and flat blade paddle in accordance with manufacturer's instructions.
- B. Pour setting agent into base and mix slowly.
- C. Scrape material from sides and bottom until joint sealant is a uniform color.

- D. Continue mixing for a minimum of 10 minutes.
- E. Apply thoroughly blended joint sealant using a squeeze bottle, caulking gun, or any other suitable applicator in accordance with manufacturer's instructions.
- F. Allow eight hours for joint sealant to set up to a tack-free consistency.
- G. Allow 24 hours with air and surface temperatures above 77° F (25° C) for full cure.

3.05 CLEAN UP

- A. Clean tools with xylene or toluene and remove masking tape before sealant cures.

END OF SECTION