

GUIDE SPECIFICATION FOR DECK-O-SEAL®: 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: DECK-O-SEAL two-part, polysulfide-based joint sealant is a premium-grade, pourable, self-leveling sealant. It is a non-staining sealant that cures at an ambient temperature to a firm, flexible, tear-resistant rubber. DECK-O-SEAL is highly resilient and has excellent recovery characteristics after extended periods of compression or elongation. DECK-O-SEAL has outstanding resistance to most chemicals, to all weather conditions, aging, and shrinkage.

DECK-O-SEAL is used for caulking and sealing joints subject to concrete movement to provide a firm, flexible, weather-tight seal. It is ideal for sealing joints on swimming pool decks. It is applicable for both interior and exterior use.

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 C920: Standard Specification for Elastomeric Joint Sealants.
- B. 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: 4 hours.
 - d. Linear Shrinkage: Negligible.
 - e. Shore Hardness: Shore A 20 ± 5.
 - f. Tensile Strength: 125 - 200 psi. (862 – 1379 KPa)
 - g. Elongation: 500%.
 - h. Peel Adhesion (ASTM C794): 20 lb./in. min. (357 g/mm).
 - 2. Proprietary Based Specification: DECK-O-SEAL 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 GUN GRADE adheres well to unprimed concrete; however, P/G PRIMER is recommended for optimum adhesion. P/G PRIMER is <i>required</i> for all joints subjected to hydrostatic pressure, submerged underwater, and/or joints over 1" in width.
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- 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 approximately 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 joint sealant in accordance with manufacturer's instructions.

- F. Joint sealant will become tack-free after approximately four hours and will fully cure after 24 hours at air and surface temperatures above 77° F (25° C).

3.05 CLEAN UP

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

END OF SECTION