

PRODUCT DATA



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DECK-O-SEAL ONE STEP®

Elastomeric, Single-Component, Non-Sag, Polysulfide, Polymer-Based Sealing Compound

DESCRIPTION

DECK-O-SEAL ONE STEP is a single-component, non-sag, elastomeric, polysulfide-based sealing compound used for caulking joints in structures that are subject to movement caused by temperature changes. ONE STEP resists the effects of oil and gasoline when spills are wiped up immediately.

USES

DECK-O-SEAL ONE STEP is ideal for glazing operations and sealing joints in concrete structures. It bonds well to concrete, masonry, glass, metal and wood. It is ideally suited for applications when an expansion joint is required. NOTE: Do not paint DECK-O-SEAL.

ONE STEP is frequently used in high sloping and vertical expansion joints where a non-sag, watertight, elastomeric sealant is required. ONE STEP is ideal for use in swimming pools above the waterline, where the tile meets the pool coping. For joints that will be submerged under water, use DECK-O-SEAL 125 for horizontal applications or DECK-O-SEAL GUN GRADE for high sloped or vertical applications. All joints submerged under water must be primed with REZI-WELD™ LV from W. R. MEADOWS.

SPECIFICATIONS

- ASTM C 920, Type S, Grade NS, Class 25, NT
- CRD-C-506, Type II, Classes A & B
- Federal Spec. A-A-1556A, Type S, Grade NS, Class 25, NT

SHELF LIFE (TYPICAL)

6 months when stored in unopened containers under 80° F (27° C)].

COLOR

DECK-O-SEAL ONE STEP is available in Dura-White, Stone Gray and Desert Tan.

LEED INFORMATION

May help contribute to LEED credits:

- EQ Credit 4.1: Low Emitting Materials: Adhesives and Sealants
- MR Credit 5.1: Regional Materials: 10% Extracted, Processed & Manufactured Regionally
- MR Credit 5.2: Regional Materials: 20% Extracted, Processed & Manufactured Regionally

FEATURES/BENEFITS

- Highly resilient with excellent recovery characteristics.
- Prevents uncontrolled cracking by allowing expansion and contraction during temperature changes.
- Stays flexible ... won't become brittle or crack due to ultraviolet exposure.
- Resists abrasion, weathering and moisture; elevated temperatures will not cause discoloration.
- Resistant to today's pool chemicals when used under normal conditions.
- Provides a permanent and uniform watertight seal.
- Ready to use in self-contained cartridge.
- Economical ... no wasted material.
- Eliminates moisture delays ... rain or morning dew actually enhances the product after installation.

PACKAGING

Pre-mixed, ready-to-use, self-contained, 11 oz. cartridges, packaged 12 per carton.

PHYSICAL PROPERTIES*

CONSISTENCY	Non-sag
TACK-FREE TIME	Skins Overnight
CURE TIME (77° F and 50% RH)	1/8" Thickness – 5 Days 1/4" Thickness – 10 Days
SHORE HARDNESS	Shore A (35-40)
ELONGATION	400% min.
TENSILE STRENGTH	75 psi
SHRINKAGE	Negligible
PEEL ADHESION (Per ASTM C 794) Concrete	20 lb./in. Min. (357 g/mm)
APPLICATION TEMPERATURE	Above 40° F (4° C)
STORAGE LIFE	6 months when stored in unopened containers under 80° F

*These physical properties are typical, but should not be used in specifying material due to differences that could result from variations in testing methods.

deck-o-seal.

CONTINUED ON REVERSE SIDE ...

A DIVISION OF W. R. MEADOWS.

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COVERAGE

This chart shows the approximate number of lineal feet that can be sealed with an 11-oz. cartridge.

		WIDTH OF JOINT					
		1/4"	3/8"	1/2"	5/8"	3/4"	1"
DEPTH OF JOINT	1/4"	30	20	15	12	10	8
	3/8"		13	10	8	6	4
	1/2"			7	5	4	3

APPLICATION

Follow these instructions carefully for maximum effectiveness. BE SURE TO WEAR PROTECTIVE SAFETY GLASSES AND CHEMICAL-RESISTANT GLOVES.

Surface Preparation ... Remove foreign substances, incompressibles and free water from joint opening. For proper adhesion, joints must be clean and dry. Dust, dirt and laitance should be removed prior to application. Concrete should be completely cured and free from all foreign materials and contamination from curing agents. (Industry accepted standard for curing concrete is 28 days.) To maintain cleanliness around the joint to be sealed, apply masking tape 2" wide to the surfaces adjoining both sides of the joint before ONE STEP is applied ... be sure to remove masking tape before the sealant starts to set.

Priming ... ONE STEP adheres well to unprimed concrete; however, REZI-WELD LV is recommended for optimum adhesion.

Joint Sizes ... Proper joint design practices and application techniques must be followed for successful performance. DECK-O-FOAM® or KOOL-ROD™ from W. R. MEADOWS may be used as a joint backing material to control sealant depth and provide joint configuration. A 2:1 width-to-depth ratio should be maintained. However, in no case should joint sealant depth be less than 1/4" or exceed 1/2". ONE STEP should NOT be used in joints less than 1/4" (6.35 mm) wide and is NOT recommended for use in joints over 1" in width.

Application Method ... ONE STEP may be applied by manual or air-operated caulking guns, putty knife or trowel. Under normal conditions (70° F and 50% relative humidity), ONE STEP will form a skin on the sealant in approximately eight hours. The time required for complete curing of the sealant depends on the size of the joint, temperature and humidity. High temperatures and high humidity promote rapid curing. Conversely, low temperatures and low humidity will result in a longer time required to develop the optimum qualities of the sealant.

Cleanup ... Application equipment should be cleaned promptly with xylene or toluene.

PRODUCT MAINTENANCE

Damaged sections of original sealant can be removed and resealed with ONE STEP. Joints must be cleans if contaminated.

PRECAUTIONS

ONE STEP is not recommended for horizontal joints where immediate foot or wheel traffic is anticipated prior to the full curing of the sealant. It is not compatible with asphalt and cannot be used in asphalt concrete pavement or with asphalt impregnated expansion joint fillers. Do not use ONE STEP under water. NOTE: Do not paint DECK-O-SEAL. On commercial projects where faster cure time is needed, we recommend DECKO-SEAL GUN GRADE two-part sealant. DECK-O-SEAL is not compatible with asphalt and cannot be used in asphalt concrete pavement or with asphalt-impregnated expansion joint fillers. NOTE: It is not recommended to apply paint over DECK-O-SEAL products. DECK-O-SEAL cannot be used underwater. DECK-O-SEAL 125 or DECK-O-SEAL GUN GRADE should be used in joints under the waterline. For underwater applications, see current DECK-O-SEAL and DECK-O-SEAL GUN GRADE data sheets for recommendations and application information.

HEALTH HAZARDS

Avoid direct contact with this product. If irritation occurs and persists, seek medical attention. Refer to Material Safety Data Sheet for complete health and safety information

For most recent data sheet, further LEED information, and MSDS, visit www.deckoseal.com.

LIMITED WARRANTY

"DECK-O-SEAL®, A Division of W. R. MEADOWS, INC., warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order." Read complete warranty. Copy furnished upon request.

Disclaimer

The information contained herein is included for illustrative purposes only, and to the best of our knowledge, is accurate and reliable. DECK-O-SEAL cannot however under any circumstances make any guarantee of results or assume any obligation or liability in connection with the use of this information. As DECK-O-SEAL has no control over the use to which others may put its product, it is recommended that the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.