



DATA SHEET NO. 7900-305

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..

USE

DECK-O-SEAL ONE STEP is ideal for glazing operation 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 P/G Primer 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 26.6°C (80°F).

COLOUR

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 AND 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 ultra-violet exposure
- Resists abrasion, weathering and moisture; elevated temperatures will not cause discoloration
- Resistant to today's pool chemicals, used under normal conditions
- Provides a permanent and uniform water-tight 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

Premixed, ready-to-use, self-contained 325 ml (11 oz.) cartridges, packaged 12 per carton.

PHYSICAL PROPERTIES*

CONSISTENCY	Non-sag
TACK-FREE TIME	Skins overnight
CURE TIME@ 25°C (77°F) and 50% R.H.	3.2 mm (1/8") Thickness – 5 days 6.4 mm (1/4") Thickness – 10 days
SHORE HARDNESS	Shore A (35-40)
ELONGATION	400% minimum
TENSILE STRENGTH	0.52 MPa (75 psi)
SHRINKAGE	Negligible
PEEL ADHESION (Per ASTM C 794) Concrete	357 g/mm (20 lb./in.) Minimum
APPLICATION TEMPERATURE	Above 4°C (40°F)
STORAGE LIFE	6 months,when stored in unopened containers under 26.6°C (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..

continued over . .

W. R. MEADOWS OF CANADA

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Coverage

This chart shows the approximate number of lineal feet which can be sealed with a 325 ml (11 fluid oz.) cartridge.

DEPTH OF JOINT	WIDTH OF JOINT IN MM (INCHES)					
	6.4 (1/4)	9.6 (3/8)	12.8 (1/2)	16 (5/8)	19.2 (3/4)	25.4 (1)
6.4 mm (1/4")	30	20	15	12	10	8
9.6 mm (3/8")		13	10	8	6	4
12.8 mm (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 50 mm (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 un-primed concrete, however P/G PRIMER from W. R. MEADOWS is recommended for optimum adhesion.

Joint Sizes . . . Proper joint design practices and application techniques must be followed for successful performance. DECK-O-FOAM, KOOL-ROD or CERA-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 6.4 mm (1/4") or exceed 12.7 mm (1/2"). ONE-STEP should NOT be used in joints less than 6.4 mm (1/4") wide and is NOT recommended for use in joints over 25.4 mm (1") in width.

Application Method . . . ONE STEP may be applied by manual or air-operated caulking guns, putty knife or trowel. Under normal conditions (21.1°C [70°F] and 50% relative humidity), ONE STEP will form a skin on the sealant in approximately 8 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.

Clean-up . . . 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 cleaned 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 DECK-O-SEAL GUN GRADE, two-part sealant..

Proper application is the responsibility of the user. Field visits by W. R. MEADOWS' personnel are for the purpose of making technical recommendations only, and are not to supervise or provide quality control on the job-site.

HEALTH HAZARDS

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

SPECIFICATION CLAUSE

Section 13 11 00

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

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® SEALTIGHT is a registered trade mark of W. R. Meadows

WARRANTY: W. R. Meadows of Canada warrants that, at the time and place we make shipment, our materials will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM OF TRADE OR OTHERWISE. As the exclusive remedy for breach of this Warranty, we will replace defective materials, provided, however, that the buyer examine the materials when received and promptly notify us in writing of any defect before the materials are used or incorporated into a structure. Three (3) months after W. R. Meadows of Canada has shipped the materials, all our Warranty and other duties with respect to the quality of the materials delivered shall conclusively be presumed to have been satisfied, all liability therefore terminates and no action for breach of any such duties may thereafter be commenced. W. R. Meadows of Canada shall in no event be liable for consequential damages. Unless otherwise agreed to in writing, no warranty is made with respect to materials not manufactured by W. R. Meadows of Canada. We cannot warrant or in any way guarantee any particular method of use or application or the performance of materials under any particular condition. Neither this Warranty nor our liability may be extended or amended by our salesmen, distributors or representatives, or by our distributor's representatives, or by any sales information or drawings.