PRODUCT DATA

CSI Code: 02760

W. R. MEADOWS SEALTIGHT

No. 224

JULY 2004
(Supersedes MARCH 2003)

SOF-SEAL®

Cold-Applied, Low-Modulus Horizontal Joint Sealant

DESCRIPTION

Cold-Applied SOF-SEAL Low-Modulus Horizontal Joint Sealant 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. Once properly mixed and applied, it cures within 2 hours 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 does not track in the summer and will not become brittle at temperatures as low as -20°F (-29°C)…remains soft, flexible and pliable in the joint even after repeated freeze/thaw cycles. Cold-Applied SOF-SEAL offers excellent elongation, high resiliency, tenacious bonding power and excellent longevity. This self-leveling sealant requires no special application equipment and can easily be poured into cracks and joints.

USES

Cold-Applied SOF-SEAL is a versatile pavement sealant suitable for both large or small-scale sealing. It is excellent for crack repair and preventive maintenance sealing projects. It is ideal for use when a maintenance group doesn't have a melter, or where it is not practical to fire-up and repeatedly move melter-applicator units (small-scale 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 sealant.

PACKAGING

Two-component, Cold-Applied SOF-SEAL is packaged in convenient 3 gallon (11.36 liter) units. The base material is furnished in an oversized container suitable for mixing and pouring. The activator is furnished in a bottle inserted in a plastic bag which hangs inside the container. Both components are pre-measured to exact quantities. Mix all materials in container; do not mix partial units.

FEATURES AND BENEFITS

- Provides a cost-effective alternative to hot-applied sealants
- Delivers reliable, consistent performance even during cold weather or after repeated freeze-thaw cycles
- Remains pliable in the joint for years...a superb preventive maintenance factor
- Accommodates joint movement effectively over a wide range of temperatures
- Offers exceptional elongation and longevity, high resiliency and tenacious bonding power
- Rejects ingress of incompressibles
- Does not become brittle or crack out in winter... will not flow in warm weather
- Maintains low stress development because of its low modulus properties
- A proven alternative to silicone-base sealants
- Can be used as a pitch pan sealant

TECHNICAL DATA	
Application Life (Pot Life) @ 70°F (21°C)	45 Minutes
Initial Cure:	approx. 2 hours
Penetration mm/10	
@ 77°F (25°C)	140
@ 0°F (-18°C)	35
Flow, cm	None
Resilience, %	90%
Bond Test, 3 cycles	
200% extension @ -20°F (-29°C)	Pass 3 cycles
Elongation, 300% @ -20°F (-29°C)	Pass 1 cycle

COVERAGE

7.47 gal./cu.ft. (1000 liters/cu.m.). A joint 1/2" x 1/2" (12.7mm x 12.7mm) will require 1.3 gal./100 linear feet (16 liters/100m).

SHELF LIFE

SOF-SEAL should be stored in a cool warehouse. Like many top-quality, two-component sealants, SOF-SEAL has a limited (maximum 6 months) shelf life and should be used as quickly as possible after purchase. NOTE: Do not open pail until ready to use, as this significantly reduces shelf life.

CONTINUED ON REVERSE SIDE...

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APPLICATION

Surface/Joint Preparation: Remove foreign substances, incompressibles and free water from joint opening. For proper adhesion, joints must be clean and surface dry. Dust, dirt and laitance should be removed prior to application. SOF-SEAL adheres well to unprimed concrete. Proper joint design practices and applications must be followed for successful performance. Cold-Applied SOF-SEAL should be used on joints not less than 1/4″ (6.35mm) wide. A 2:1 width-to-depth ratio should be maintained. For straight joint edges, mask off top surfaces with masking tape. To control sealant depth, insert KOOL-ROD™ Backer Rod or DECK-O-FOAM® from W. R. MEADOWS in the joint before sealing. For larger joints, where additional support is required, use a non-asphalt joint filler, such as CERAMAR® Flexible Foam Expansion Joint Filler from W. R. MEADOWS.

Mixing...Prior to mixing, Cold-Applied SOF-SEAL should be stored at temperatures of 55°F (13°C) or higher. The two components of Cold-Applied SOF-SEAL are pre-measured and must be mixed together at one time. Add the Activator, to the Base Material and blend thoroughly. Mixing can be accomplished with a variable speed drill operated at slow speeds (see A) or by hand (see B). In either case, the mixing should be interrupted occasionally and the mixing paddle used to wipe material from the sides and bottom of the container for thorough blending.

A. Preferred Method...Mixing with a variable speed drill fitted with a slotted, flat-headed paddle is best accomplished when the drill is operated at slow speeds, not to exceed 400 rpm...MIXING TIME IS 5 MINUTES MINIMUM.

B. Mixing by hand can be accomplished with a flat, wooden mixing paddle...MIXING TIME BY HAND IS 8 MINUTES MINIMUM.

Pouring...Cold-Applied SOF-SEAL may be poured from its original container or any clean container suitable for pouring. A commercial sealing pot equipped with a narrow pouring spout and shutoff valve is ideal. Fill cracks or joints flush with pavement surface. If cracks are overfilled, use a squeegee to achieve a uniform appearance.To facilitate prompt opening to vehicular traffic, about one hour after applying sealer, dust with limestone dust or talc, as an example, to minimize tracking.

Clean up...Before material has cured, use an aromatic solvent such as Toluene. After material has cured, it will be necessary to cut or abrade the material from equipment.

Application Tools


Electric Drill with Flat Paddle


Wooden Mixing Paddle


Jiffy Mixer

PRECAUTIONS

Cold-Applied SOF-SEAL components are pre-measured to exact quantities. Mix all materials in container; do not mix partial units or dilute. Apply only when the temperatures of the air and joint interfaces are 40°F (4°C) or higher.

HEALTH HAZARDS: Avoid contact with skin or prolonged breathing of vapors. Refer to Material Safety Data Sheet for complete health and safety information.

FOR THE MOST CURRENT PRODUCT INFORMATION, VISIT OUR WEBSITE: www.wrmeadows.com

LIMITED WARRANTY

"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. W. R. MEADOWS, INC. 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 W. R. MEADOWS, INC. 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.