



DATA SHEET NO. 7900-802

SAFE-SEAL® 3405

High Performance, Cold-Applied, One-Component, Horizontal Crack and Joint Sealant

DESCRIPTION

SAFE-SEAL 3405 is a high performance, polymer-modified asphalt emulsion horizontal joint and crack sealant. It is a one-component, self-leveling material that can easily be poured into openings 3.2 mm up to 25.4 mm (1/8" up to 1") wide. At 24° C (75° F) and 50% humidity, a typical joint of 12.7 mm x 12.7 mm (1/2" x 1/2") becomes tack-free in two hours or less. After full cure, the product will remain flexible at cold temperatures and will not flow at high temperatures.

FEATURES/BENEFITS

- No hot kettle required/ Safe to use; no danger of burns.
- No expensive equipment needed/No equipment maintenance, breakdowns, fires, etc.
- Allows use of smaller, non-specialized crews/ Reduced installation costs.
- Can be applied to damp cracks/Saves time ... no need for joints to fully dry.
- Pours directly from container/ Easy to apply.
- VOC compliant/ Environmentally safe.
- User-friendly/ Easy to clean up.

LEED INFORMATION

- IEQ Credit 4.1: Low Emitting Materials: Adhesives and Sealants
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

USE

SAFE-SEAL 3405 is ideal for small-, medium-, or large-scale sealing projects on parking lots, highways, street maintenance, driveways, airport aprons, and runways. SAFE-SEAL 3405 should be used in any application where superior performance is a necessity or where a hot-applied product is either too dangerous or impractical. It offers excellent bonding properties, high resiliency, and resistance to weathering. SAFE-SEAL 3405 may be used wherever the measurable ASTM D 3405 specification is required. It provides a soft, flexible sealant for either concrete or asphalt pavement repairs. This material remains pliable and will not track in warm weather or become brittle and crack in cold weather.

*ADDITIONAL COLD-APPLIED MEADOWS PRODUCTS

- SOF-SEAL® - two-component, cold-applied, polymer horizontal joint sealer
- GARDOX® - two-component, cold-applied, modified coal tar urethane for concrete joints
- CERA-ROD™ - backer rod
- #158 - one-component, cold- and pressure-applied, rubberized asphalt sealant
- DECK-O-SEAL® - two-component, elastomeric, polysulfide-based joint sealant

*W. R. MEADOWS also provides the industry's most extensive line of hot-applied asphalt based sealants to meet a variety of performance requirements.

Continued over

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TECHNICAL DATA

UNCURED:

Solids, %	72
Viscosity, CPS	6000

CURED:

Penetration, mm/10	70
Resilience, %	63
Softening Point, ° C	82
Wt. Per 3.8 litres (1 U.S. gallon)	3.74 kg (8.3 lb.)

Surface and Joint Preparation ... The joints and cracks to be sealed must be clean. Dust, dirt, and laitance should be removed prior to application. Proper routing should be slightly larger than existing crack/joint to ensure proper adhesion to sidewalls

Asphalt Pavement and Maintenance Sealing ... For ideal sealing with maximum effectiveness, it is suggested that cracks or joints should be routed out to provide a sealant reservoir 12.7 mm (1/2") wide with a minimum depth of 12.7 mm (1/2"). This provides for a 1:1 width-to-depth ratio. To control and maintain the suggested joint depth and sealant usage, CERA-ROD may be installed in the joint opening

New Concrete Pavement Sealing ... Designated joint width and depth is determined by the appropriate highway or pavement authority. Typical joint configuration would be 9.54 mm (3/8") wide with a minimum 12.7 mm (1/2") depth for an approximate 1:1 width-to-depth ratio. CERA-ROD may be installed in the joint opening to control depth and sealant usage

Application Method ... SAFE-SEAL 3405 should be applied into the crack/joint, slightly overfilling. SAFE-SEAL 3405 may be poured from the container or a commercial sealing pot equipped with a narrow pouring spout and shut-off valve. Once applied, a follow-up should be done with a soft, rubber, U-shaped squeegee to form a wipe zone of approximately 76.2 – 101.6 mm (3" – 4") wide along the crack/joint and flush with the highway or pavement surface.

ADDITIONAL INFORMATION

- Colour:** Black (cured)
Packaging: 3.78 litre (1 U.S. gallon) container
18.93 litre (5 U.S. gallon) pail
Coverage: A joint 12.7 mm x 12.7 mm (1/2" x 1/2") covers approx. 22.8 metres/3.78 litres (75 lineal ft./U.S.gal.)
Cleanup: Use water before product cures. Once material is cured, use a solvent-based cleaner.
Shelf life: 6 months, when properly stored in unopened container.

PRECAUTIONS

KEEP FROM FREEZING. Storage temperature should not exceed 32° C (90° F). Do not apply SAFE-SEAL 3405 if rainfall is forecast or imminent within 24 hours. Do not apply SAFE-SEAL 3405 when air, material, and surface temperatures are expected to fall below 10° C (50° F) within eight hours of completed application. SAFE-SEAL 3405 is not recommended for sealing cracks or joints in tennis courts.

MASTERFORMAT 2004 NUMBER AND TITLE

32 12 73 Asphalt Paving Joint Sealants

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