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(Supersedes March 2006)

## 3405

### Hot-Applied, Single Component, Polymeric Joint Sealant

#### DESCRIPTION

3405 is a quality, hot-applied, single-component polymeric compound. 3405 was specifically formulated for the cost-effective sealing of cracks and joints in Portland cement and asphalt concrete highways. It offers excellent bonding properties, high resiliency, and resistance to degradation from weathering. It is ideal for large, medium, and small-scale sealing projects.

#### PACKAGING

55 pound (24.95 kg) cartons containing two 27.5 pound (12.47 kg) blocks individually wrapped in poly bag liners.

#### SPECIFICATIONS

ASTM D 1190  
ASTM D 3405  
ASTM D 6690, Type I, II and III  
AASHTO M 173  
AASHTO M 324  
Corps. Of Engineers, CRD C 530  
Federal Specification SS-S-1401C

#### TECHNICAL DATA

TEST	TYPICAL RESULTS
Penetration, mm/10	80
Resilience, %	63
Flow, cm	0.1
Bond test, 50% extension @ -20° F (-29° C)	Pass
Viscosity @ 380° F (183° C), CPS	2,000
Wt. per gallon, lb.	10
Wt. per liter, kg.	1.20
Recommended pouring temp.	370° F (188° C)
Recommended safe heating temp.	390° F (199° C)

#### APPLICATION

**Melting ...** 3405 should be melted in an oil-jacketed melter-applicator equipped with an agitator and separate temperature thermometers for oil bath and melting vat. Sealing may be done at air temperatures of 40° F (4° C) and higher.

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

NOTE: Application of sealant into frozen or wet pavement will result in loss of bond and premature failure of the sealant.

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

**Asphalt Pavement and Maintenance Sealing ...** For ideal sealing with maximum effectiveness, it is suggested that cracks or joints be routed out to provide a sealant reservoir 1/2" (12.7 mm) wide with a minimum depth of 1/2" (12.7 mm). This provides for a 1:1 width-to-depth ratio. For joints 1" (25.4 mm) wide, the suggested depth is 1/2" (12.7 mm) minimum. To control and maintain the suggested joint depth and sealant usage, CERA-ROD heat-resistant backer rod may be installed in the joint opening.

CONTINUED ON REVERSE SIDE...

**Application Method ...** 3405 should be applied into the crack/joint, slightly overfilling. Once applied, a follow-up should be done with a soft rubber, U-shaped squeegee to form a wipe zone of approximately 3 - 4" (76.2 - 101.6 mm) wide along the crack/joint and flush with the highway or pavement surface.

### **PRECAUTIONS**

Service life at recommended temperatures is approximately 12-15 hours. Application life may be extended by adding fresh material as sealant is applied and the quantity in the kettle decreases. 3405 hot-pour joint sealant can be reheated once within the prescribed safe heating temperature limits. Repeated reheating may result in material degradation or gelling in the melter. When the application life has been exceeded, 3405 will thicken, become stringy, and may gel. If this occurs, remove the sealant immediately from the kettle and discard.

Read and follow application information and use in accordance with the health and safety information shown on the label. Refer to material safety data sheet for complete health and safety information.

### **LEED INFORMATION**

May help contribute to LEED credits:

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

**For most current data sheet, further LEED information, and MSDS, visit**

[www.wrmeadows.com](http://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.