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SEPTEMBER 2024
(Supersedes March 2024)

3405

Hot-Applied, Single-Component, Polymeric Joint Sealant

DESCRIPTION

3405 is a quality, hot-applied, single-component polymeric compound. It offers excellent bonding properties, high resiliency, and resistance to degradation from weathering.

USES

3405 was specifically formulated for the cost-effective sealing of cracks and joints in Portland cement and asphalt concrete highways. It is ideal for large, medium, and small-scale sealing projects.

FEATURES/BENEFITS

- Provides excellent, durable bond.
- Highly resiliency in harsh conditions.
- Highly resistant to deterioration due to various weather conditions.

PACKAGING

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

30 lb. (13.6 kg) carton also available from Fort Worth, TX plant for use in territories serviced by that location. Carton consists of one 30 lb. (13.6 kg) block.

COVERAGE

12.7 lb./100 lineal feet

SPECIFICATIONS/STANDARDS

- ASTM D1190
- ASTM D3405
- ASTM D6690 Type I
- ASTM D6690 Type II
- AASHTO M 173
- AASHTO M 324
- Corps. of Engineers, CRD C 530
- FAA P-605
- Federal Specification SS-S-1401C
- OK DOT Approved
- TX DOT Approved

TECHNICAL DATA

TEST	TYPICAL RESULTS
Penetration, mm/10	65
Resilience, %	63
Flow, cm	0.1
Bond test, 50% extension @ -20° F (-29° C)	Pass
Viscosity @ 380° F (183° C), CPS	7000
Wt. per gallon, lb.	10
Wt. per liter, kg.	1.20
Softening Point	>176° F (80° C)
Recommended pouring temp.	390° F (199° C)
Recommended safe heating temp.	400° F (204° C)
VOC Content, g/L	0

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.

CONTINUED ON REVERSE SIDE ...

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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.

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 Safety Data Sheet for complete health and safety information.

For most current data sheet, further sustainability information, and SDS, visit www.wrmeadows.com.



W. R. MEADOWS®

**Prevent.
Protect.
Preserve.**



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

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