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JULY 2024
(Supersedes March 2023)

3405-M

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

DESCRIPTION

3405-M modified, low-modulus, polymeric compound is a quality, hot-applied, single-component joint sealant designed to effectively seal cracks and joints in both Portland cement and asphalt concrete surfaces. 3405-M provides a soft, flexible crack and joint sealant that remains pliable. The product will not become brittle and crack in cold weather, nor track in warm weather.

USES

3405-M can be used as a joint sealant in concrete pavements as well as a random crack sealant in bituminous pavements.

FEATURES/BENEFITS

- Effectively seals cracks and joints in both Portland cement and asphalt concrete surfaces.
- Soft, flexible material.
- Remains pliable.
- Will not become brittle and crack in cold weather, nor track in warm weather.

PACKAGING

30 Lb. Carton
55 Lb. Carton containing two 27.5 lb. blocks individually wrapped in poly bag liners.

COVERAGE

Joints ½" wide x ½" deep require 12.7 lb./100 lineal feet.

SPECIFICATIONS/STANDARDS

- ASTM D 6690, Type IV
- Various State D-3405 Modified
- Low-Modulus Specifications:
 - Iowa – 4136.02A
 - Kansas – TS109.4
 - Michigan – 914.04A
 - North Dakota - 826.02
 - South Dakota – Low-Modulus Specification

TECHNICAL DATA

Test	Typical Results
Penetration, mm/10	122
Resilience, %	63
Flow, cm	0.1
Bond, 3 cycles @ -20° F	
200% extension	Pass
Wt. per gallon, lb.	9.2
Viscosity, CPS @ 380° F	1,500
Asphalt compatibility	Pass
VOC Content	0 g/L
Recommended Pouring Temp	390° F
Maximum Safe Heating Temp	400° F

APPLICATION

Melting ... 3405-M should be melted in an oil-jacketed melter/applicator equipped with an agitator and separate temperature thermometers for oil bath and melting vat.

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 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" wide with a minimum 1/2" 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 should be routed out to provide a sealant reservoir 1/2" wide with a minimum depth of 1/2". This provides for a 1:1 width-to-depth ratio. For joints 1" wide, the suggested depth is 1/2" minimum. To control and maintain the suggested joint depth and sealant usage, CERA-ROD heat-resistant backer rod from W. R. MEADOWS may be installed in the joint opening.

Application Method ... Sealing may be done at air temperatures of 40° F or higher. 3405-M 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" wide along the crack/joint and flush with the highway or pavement surface.

PRECAUTIONS

Do not heat material to over 400° F or polymer degradation and gelling may occur. Reheating or prolonged heating (in excess of six hours) without the addition of fresh material could cause the material to gel in the application equipment. A rapid increase in viscosity or stringiness signals the approach of gelling and the material should be promptly discarded. Refer to safety data sheet for complete health and safety information.

For most recent data sheet, sustainability information, and safety data sheet, 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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