

CRACKMASTER 3405 MI

Hot Pour Crack Sealant

SMT-259

REVISED 03/03/26

PRODUCT DESCRIPTION

CrackMaster 3405 MI is a premium crack and joint sealant for portland cement and asphaltic pavements. As an economical and effective preventative maintenance treatment, CrackMaster 3405 MI prolongs pavement life by sealing cracks and joints from water penetration, which cause base failure and pot holes. CrackMaster 3405 MI is a hot applied, one part material that provides excellent results in cold weather and throughout repeated freeze/thaw cycles. CrackMaster 3405 MI offers high resiliency and resistance to weathering. CrackMaster 3405 MI forms a long-lasting seal which resists tracking in warm temperatures and remains flexible in cold temperatures.

- Flexible to -30°F
- Excellent Adhesion
- Rapid Melting
- Resists Tracking

USES

CrackMaster 3405 MI is recommended for sealing cracks and joints in portland cement and asphaltic pavements. It is designed to seal expansion and contraction joints, longitudinal and transverse cracks, joints between concrete and asphaltic shoulders and random cracks.

SURFACE PREPARATION

Proper surface preparation facilitates adhesion and consequently the maximum service life of the sealant. In order for proper adhesion to occur, the crack/joint must be free of moisture, dust, loose aggregate and other contaminants. The substrate and air temperatures must be 40° F or above. Sawing, routing and/or sandblasting are the preferred methods of preparation. Use oil-free compressed air and heat to clean and dry the crack/joint immediately prior to sealing. Cracks/joints should be sized so that the maximum extension and compression do not exceed 50% of the width. Best results are obtained when the cracks/joints are opened at least 1/2 inch wide.

MELTING AND APPLICATION

Melt CrackMaster 3405 MI using a conventional oil jacketed kettle equipped with agitator and temperature control devices for both the material and heat transfer oil. Carefully insert small quantities of CrackMaster and the plastic bag into the melting equipment while the agitator is turned off. Load material slowly to avoid splash back. After the initial load has reached the recommended pouring temperature, fresh material may be added to the melter as sealant is used. Melt only the material that will be used during that day. Purge material remaining in the kettle lines at the end of each sealing operation.

NOTE

The temperature of the heat transfer oil should not exceed 525°F. Do not heat CrackMaster above the maximum heating temperature and do not maintain it at that temperature for prolonged periods of time. This could cause the material to gel in the equipment or fail in the joints. A significant viscosity increase accompanied by stringiness signals the approach of gelation. If this occurs, immediately remove the material from the melter and dispose of it.

PRODUCT SPECIFICATIONS

when tested in accordance with ASTM D 5329, 36, 522, modified 3111 & 4402

Chemical & Physical Analysis		
Maximum Safe Heating Temp.		400°F
Application Temperature		370-390°F
Heating Time		12 Hours Max.
Penetration	77°F	60-90 dmm
Resiliency	77°F	40% Min.
Mandrel Bend	-29°F	Pass
Bond	-20°F / 100% Ext.	3 Cycles Passed
Softening Point		176°F Min.
Viscosity	375°F	50 Poise Ma
Asphalt Compatibility		Pass
Flash Point		420°F Min.

ESTIMATING MATERIAL REQUIREMENTS

Use the following chart as a guideline for estimating material requirements (based upon pounds of material needed for 100 feet of cracks):

Crack Width	Depth	Lbs/100 Ft
3/8"	3/8"	7.2 lbs.
3/8"	1/2"	9.6 lbs.
1/2"	1/2"	12.8 lbs.
1/2"	1"	25.7 lbs.
3/4"	1/2"	19.3 lbs.
3/4"	3/4"	28.9 lbs.

The above coverage rates are only a guideline. Actual material usage may vary due to width of application and thickness of material above pavement surfaces.

SPECIFICATIONS

Michigan DOT specification 914.04.C
Minnesota DOT specification 3723-2

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PACKAGING AND AVAILABILITY

CrackMaster 3405 MI is packaged in 30 lb ply bags and boxed in high-strength corrugated cardboard. CrackMaster Hot Pour Crack Sealants are supported by a nationwide network of SealMaster facilities along with a national and international network of professional applicators.

WARRANTY AND DISCLAIMER

The statements made on this technical data sheet are believed to be true and accurate and are intended to provide a guide for approved application practices. As workmanship, weather, construction, condition of pavement, tools utilized, and other variables affecting results are all beyond our control, the manufacturer warrants only that the material conforms to product specifications and any liability to the buyer or user of this product is limited to the replacement value of the product only. The manufacturer expressly disclaims any implied warranties of merchantability or fitness for a particular purpose.

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