

1. PRODUCT NAME

CrackMaster 3405
 Hot Pour Crack Sealant

2. MANUFACTURER

ThorWorks Industries, Inc.
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 Sandusky, OH 44870

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3. PRODUCT DESCRIPTION & BENEFITS

CrackMaster 3405 is a single component, hot applied crack and joint sealant. When melted and properly applied it forms a resilient crack sealant for both asphaltic and cementitious pavements. CrackMaster 3405 meets ASTM-D3405, ASTM-D6690 Type II and III, AASHTO-M301.

Basic Uses: CrackMaster 3405 is designed to seal expansion joints, longitudinal and transverse cracks, joints between concrete and asphalt shoulders, and random cracks in both asphalt and concrete pavements.

Composition: As supplied, CrackMaster 3405 is supplied in solid blocks comprised of asphaltic resins and synthetic polymer rubber.

Sizes: CrackMaster 3405 is supplied in 22,7 kg. cardboard cartons containing two 11,35 kg. blocks of material per carton.

Color: Black.

Limitations: Do not overheat material. Cracks must be free from moisture, dust, loose aggregate and other contaminants prior to application.

4. TECHNICAL DATA CrackMaster 3405 meets the

following material requirements when tested in accordance with ASTM D6690 Type II & III, AASHTO M324, Type II, ASTM D3405, and SS-S-1401C (see chart below).

Environmental Considerations: CrackMaster 3405 is considered a non-hazardous material.

5. INSTALLATION

Proper surface preparation will facilitate adequate adhesion and consequently the maximum service life of the sealant. The crack must be free from moisture, dust, and loose aggregate. Routing or wire brushing are preferred methods followed by a compressed air heat lance immediately prior to sealing. The substrate and air temperature must be above 5°C.

Methods: CrackMaster 3405 shall be melted in a conventional oil-jacketed unit equipped with an agitator and temperature control device for both material and heat transfer oil. Carefully insert blocks of material (with plastic bag) into melting equipment with agitator turned off. Load material slowly to avoid splashing. After the initial load of material has reached the recommended pouring temperature (187-200°C), fresh

material may be added as sealant is used. Melt only enough material that will be used the same day. Avoid overheating material. Excessive heat could cause material to gel in the equipment or fail in crack and 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.

IMPORTANT: Protective apparel is recommended with application of CrackMaster 3405. The extremely hot material will cause severe burns on contact with skin. OSHA Safety Regulations require workers to wear the following types of safety attire (see current OSHA/Safety Regulations for additional information): Hard hat with face shield; long sleeved shirt buttoned at the wrist; heat resistant gloves; long, cuffless pants; and safety toed work boots. Make certain all area around melter is clear of all debris and flammable materials. Avoid breathing vapors. Use with adequate ventilation.

Mixing Procedures: Use material as supplied. Do not blend with other materials. After CrackMaster 3405 is melted it should be agitated or recirculated.

Geographical performance of Crack Master 3405																
pavement temperatures Celsius																
-40	-35	-30	-25	-20	-10	-5	0	5	10	20	30	40	50	60	63	70
Recommended								Max:				Not recommended:				

Chemical & Physical Analysis

Recommended pour temp.....	187-200 C
Max heating temp.....	210 C
Cone penetration at 25C.....	90 max.
Resiliency.....	60% min.
Flow at 60 C.....	3 mm max.
Bond -29C/50% ext.....	passes 3 cycles
Nake -18C/100% ext.....	passes 3 cycles
Bond water immersed.....	3 cycles , 50% ext, at -29C
Specific gravity.....	1,14
Asphalt compatibility.....	compatible
Viscosity.....	35 + 20 poise

CrackMaster™ 3405

Hot Pour Crack Sealant

Application: Apply heated CrackMaster 3405 using either a pump and wand system or a pour pot. For best results the sealant depth to width ratio should not exceed 2 to 1 (i.e. 2 units deep to 1-unit wide). The cooled sealant height should not exceed 3-4mm above surrounding pavement. Using a sealing shoe or squeegee, band the material 4 to 5 cm wide over the crack.

7. WARRANTY

SealMaster warrants that CrackMaster 3405 meets the chemical composition and performance requirements set forth in section 4. Liability to the buyer or user of this product is limited to the replacement value of the product only.

9. TECHNICAL SERVICES

Manufacturer: Complete product specifications, material safety data sheets, and technical assistance is available from SealMaster.

Professional Applicators: Your local CrackMaster applicator is available to provide on-site inspections and recommendations to meet your specific needs.

10. FILING SYSTEMS

- SealMaster Online Specification at www.sealmaster.net
- Complete SealMaster Product and Equipment Catalog Available
- Sweet's Catalog
- Sweet's CD
- Sweet's Online
- Sweet's Directory

Actual material usage may vary due to width of application and thickness of material above pavement surfaces.

Precautions: Cracks must be free from moisture, dust, dirt, and debris. Both substrate and air temperature must be above 5°C. Keep boxes of material dry during storage. Do not store in direct sunlight.

6. AVAILABILITY & COST

Availability: CrackMaster Hot Pour Crack Sealants are supported by a nationwide network of SealMaster facilities along with a national and international network of professional applicators.

Cost: Cost information can be obtained from a local SealMaster CrackMaster applicator. Contact SealMaster for the CrackMaster representative in your area.

The statements made on this specification 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. Warranty is void on multi-coat applications if material made by other manufacturers is used with this product.

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Pavement Products & Equipment