SealMaster®
Pavement Products & Equipment

CrackMaster™ P.F.
Hot Pour Crack Sealant With Polyester Fiber

SMT - 198

Revised: 4/15

1. PRODUCT NAME

CrackMaster P.F.
Hot Pour Crack Sealant
With Polyester Fiber

2. MANUFACTURER

ThorWorks Industries, Inc.
2520 S. Campbell St.
Sandusky, OH 44870
Phone: 800-326-1994
Fax: 419-626-5477
www.thorworks.com

Additional Plant Locations:
SealMaster has a nationwide network of manufacturing and distribution facilities.

Phone 1-800-395-7325 or visit website at www.sealmaster.net to find the location near you.

3. PRODUCT DESCRIPTION & BENEFITS

CrackMaster P.F. is a single component, hot applied fiber modified crack and joint sealant. When melted and properly applied it forms a resilient crack sealant for both asphaltic and cementatious pavements. CrackMaster P.F. forms a lasting seal that resists tracking in warm climates.

Basic Uses: CrackMaster P.F. 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: CrackMaster P.F. is supplied in solid blocks comprised of asphaltic resins, synthetic polymers, and polyester fiber.

Sizes: CrackMaster P.F. is supplied in 50 lb. cardboard cartons containing two 25 lb. blocks of material per carton.

Color: Black.

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

4. TECHNICAL DATA

CrackMaster P.F. meets SealMaster Product Specifications when tested in accordance with ASTM D-5329 (see chart below).

Environmental Considerations:
CrackMaster P.F. 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 40°F.

Methods: CrackMaster P.F. 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 (350-370°F), 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 P.F. 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.

Chemical & Physical Analysis

Recommended Pour Temperature	350-370°F
Maximum Heating Temperature	400°F
Penetration (150 gr/5 sec.)	20-40
Resiliency	40% min
Flow at 140°F	0 mm
Softening Point	180°F min.
Polyester Fiber Content	5 ± .5%
Viscosity @ 375°F	100+ poise
Flexibility @ 0°F (1" Mandrel)	Pass
Specific Gravity	1.08
Asphalt Compatibility	Compatible

Fiber Specifications

Type	Polyester
Denier (ASTM D 1577)	3-6
Length	0.25" ± 0.02"
Specific Gravity	1.32 - 1.40
Melting Temperature	480°F min.
Tensile Strength	70,000 psi min.
Elongation at break	33% ± 9%

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

Application: Apply heated CrackMaster P.F. using a pump and wand system. For best results the sealant depth to width ratio should not exceed 2 to 1 (i.e. 2-inches deep to 1-inch wide). The cooled sealant height should not exceed 1/8" above surrounding pavement. Using a sealing shoe or squeegee, band the material 2 to 3 inches wide over the crack.

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/100feet
3/8"	3/8"	6.2 lbs.
3/8"	1/2"	8.3 lbs.
1/2"	1/2"	11.1 lbs.
1/2"	1"	22.2 lbs.
3/4"	1/2"	16.6 lbs.
3/4"	3/4"	25 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.

Precautions: Cracks must be free from moisture, dust, dirt, and debris. Both substrate and air temperature must be above 40°F. 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.

7. WARRANTY
SealMaster warrants that CrackMaster P.F. 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

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.

Form No.: SMT-198
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