

CRACKMASTER P.F., TYPE IV

Hot Pour Crack Sealant with Polyester Fiber

SMT-199

REVISED 04/03/15

PRODUCT DESCRIPTION

CrackMaster P.F., Type IV 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 cementitious pavements. CrackMaster P.F., Type IV forms a lasting seal that resists tracking in warm climates.

USES

CrackMaster P.F., Type IV 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., Type IV is supplied in solid blocks comprised of asphaltic resins, synthetic polymers, and polyester fiber.

SIZES

CrackMaster P.F., Type IV 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.

TECHNICAL DATA

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

Chemical & Physical Analysis	
Recommended Pour Temperature	370-390°F
Maximum Heating Temperature	410°F
Penetration (150 gr/5 sec.)	90 max.
Flow at 140°F (5h)	5 mm max.
Softening Point	190°F Min
Polyester Fiber Content	2% min.
Viscosity @ 375°F	100+ poise
Flexibility @ -20°F (1" Mandrel)	Pass
Specific Gravity	1.08
Asphalt Compatibility	Compatible
Resiliency	30-60%
Ductility @ 77°F	40 cm min.

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%

ENVIRONMENTAL CONSIDERATIONS

CrackMaster P.F., Type IV is considered a non-hazardous material.

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., Type IV 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 the melting equipment while the agitator is turned off. Load material slowly to avoid splashing. After the initial load of material has reached the recommended pouring temperature (370-390°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., Type IV 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.

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MIXING PROCEDURES

Use material as supplied. Do not blend with other materials. After CrackMaster P.F., Type IV is melted it should be agitated or recirculated.

APPLICATION

Apply heated CrackMaster P.F., Type IV 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/100 Ft
3/8"	3/8"	6.9 lbs.
3/8"	1/2"	9.3 lbs.
1/2"	1/2"	12.3 lbs.
1/2"	1"	24.7 lbs.
3/4"	1/2"	18.5 lbs.
3/4"	3/4"	27.8 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.

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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