

# CRACKMASTER 5078

## Crack & Joint Sealant for Cold Climates

**SMT-317**

REVISED 09/06/22

### PRODUCT DESCRIPTION

- Economical
- Excellent Adhesion
- Rapid Melting
- Not Self-Leveling

CrackMaster™ 5078 is a hot-pour crack and joint sealant for portland cement and asphaltic pavements. As an economical and effective preventative maintenance treatment, CrackMaster™ 5078 prolongs pavement life by sealing cracks and surface joints from water penetration. CrackMaster™ 5078 is a single component, specially formulated mixture of paving grade asphalt, vulcanized crumb rubber, plasticizers, and stabilizers. When melted and properly applied, it forms a resilient and adhesive compound for both cement and asphaltic pavements.

### USES

CrackMaster™ 5078 is recommended for sealing cracks and joints in portland cement, asphaltic pavements, and parking lots. It is designed to seal expansion and contraction joints, longitudinal and transverse cracks, joints between concrete and asphaltic shoulders, and random cracks.

### TECHNICAL DATA

CrackMaster™ 5078 meets the following material requirements when tested in accordance with State Modified ASTM-D 5078. (See chart below).

| Chemical & Physical Analysis    |                 |
|---------------------------------|-----------------|
| Recommended Pour Temperature    | 350-380°F       |
| Maximum Heating Temperature     | 410°F           |
| Maximum Heating Time            | 12 hrs.         |
| Penetration (150 gr/5 sec.)     | 120 max.        |
| Penetration 0°F                 | 23 min.         |
| Resiliency                      | 30-60%          |
| Flow (60°C, 75° angle, 5 hours) | 3 mm max.       |
| Flexible to                     | -40°F           |
| Bond: 0°F/50% Ext.              | Passes 3 cycles |
| Viscosity                       | 15-25           |
| Asphalt Compatibility           | Compatible      |

### SURFACE PREPARATION

Proper surface preparation facilitates adequate adhesion and consequently the maximum life of the sealant. In order for proper adhesion, 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 surface 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.

### METHODS

The melting kettle should be a conventional oil jacketed unit equipped with an agitator and temperature control devices for both the material and heat transfer oil. Carefully insert small quantities of CrackMaster™ 5078 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. The material may be safely reheated and can be applied using a pressure feed wand system or a pour pot.

### NOTE

The temperature of the heat transfer oil should not exceed 525°F. Do not heat CrackMaster™ 5078 above the maximum heating temperature and do not maintain it at the temperature for prolonged periods of time. This could cause the material to gel in the equipment or fail in the cracks/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.

### 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"  | 6.2 lbs.   |
| 3/8"        | 1/2"  | 8.3 lbs.   |
| 1/2"        | 1/2"  | 11.0 lbs.  |
| 1/2"        | 1"    | 22.1 lbs.  |
| 3/4"        | 1/2"  | 16.5 lbs.  |
| 3/4"        | 3/4"  | 24.8 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.

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### **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.

### **PACKAGING AND 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.

### **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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