

# CRACKMASTER II 90 HOT POUR CRACK SEALANT MELTABLE PACKAGING

**SMT-292**

REVISED 12/11/17

## PRODUCT DESCRIPTION

CrackMaster II 90 is a hot pour crack and joint sealant packaged in a fully meltable, rugged container. It is designed for use in crack sealant oil jacketed kettles. CrackMaster II 90 crack sealant has a lower surface tack than traditionally packaged ASTM materials. CrackMaster II 90 meets ASTM D1190, ASTM-D6690 Type I, FAA P 605, and AASHTO-M173.

## RECOMMENDED USES

CrackMaster II 90 is recommended for sealing joints and cracks 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.

## COMPOSITION

As supplied, CrackMaster II 90 is supplied in a fully meltable, rugged container.

## SIZES

CrackMaster II 90 is supplied in 32 lb. meltable units. Each pallet contains 64 containers or 2,048 pounds of CrackMaster II 90.

## COLOR

Black.

## LIMITATIONS

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

## TECHNICAL DATA

CrackMaster II 90 meets the following material requirements when tested in accordance with ASTM D1190, ASTM D6690 Type I and AASHTO M173 (see chart on right).

## ENVIRONMENTAL CONSIDERATIONS

CrackMaster II 90 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 II 90 using a conventional oil jacketed kettle equipped with agitator and temperature control devices for both the material and heat transfer oil. Carefully insert Dura-Shell sealant and outer packaging 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 melting kettle lines at the end of each sealing operation. The material may be safely reheated as required and can be applied using a pressure feed wand system or a pour pot.

## IMPORTANT

Protective apparel is recommended with application of CrackMaster II 90. 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

**TABLE I - CHEMICAL & PHYSICAL ANALYSIS**

Recommended Pour Temperature	370-400°F
Maximum Heating Temperature	450°F
Heating Time	12 Hours Max.
Cone Penetration at 77°F	65 Max.
Resiliency	30 - 60%
Flow at 140°F (5h)	3 mm Max.
Bond: 0°F/50% Ext	Passes 5 days of cycles
Softening Point	176 F Min
Specific Gravity	1.11
Asphalt Compatibility	PASSES
Viscosity @ 370	35 ± 20 poise

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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 1190 is melted it should be agitated or recirculated.

## APPLICATION

Apply heated CrackMaster 1190 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-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"	6.8 lbs.
3/8"	1/2"	9.0 lbs.
1/2"	1/2"	12.0 lbs.
1/2"	1"	24.1 lbs.
3/4"	1/2"	18.1 lbs.
3/4"	3/4"	27.1 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.

## PACKAGING AND AVAILABILITY

CrackMaster 1190 is supplied is in 32 lb. meltable units. Each pallet contains 64 containers or 2,048 pounds of CrackMaster 1190.

## 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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