

CRACKMASTER BLEND

SMT-188

REVISED 03/20/23

PRODUCT DESCRIPTION

CrackMaster Blend is a blend of 75% PG 64-22 with 25% CrackMaster Supreme DF. CrackMaster Blend acts as a bonding agent or anchor device between the overrun surface of an airport runway and the emergency arresting concrete blocks.

USES

CrackMaster Blend is recommended for use in adhering the EMAS concrete blocks at airports. An Engineered Materials Arrestor System or Engineered Materials Arresting System (EMAS) is a bed of lightweight, crushable concrete built at the end of a runway. The purpose of an EMAS is to stop an aircraft overrun with no human injury and minimal aircraft damage. The aircraft is slowed by the loss of energy required to crush the concrete blocks.

Chemical & Physical Analysis	
Recommended Application Temperature	275-350°F
Maximum Heating Temperature	410°F
Maximum Heating Time	12 hrs.
Penetration (150 gr/5 sec.)	60 ± 20 dmm
Resiliency	3-10%
Viscosity @ 375°F	1 poise
Asphalt Compatibility	Compatible

SURFACE PREPARATION

Proper surface preparation facilitates adequate adhesion and consequently the maximum life of the adhesive. In order for proper adhesion, the surface must be free of moisture, dust, loose aggregate, and other contaminants. The substrate and air temperatures must be 40°F or above. Use oil-free compressed air and heat to clean and dry the surface immediately prior to application.

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 Blend 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. Immediately prior to placing EMAS block into position, CrackMaster Blend shall be

applied to 100% of the area where the block will be placed at a rate of at least 1.75 to 2.0 gallons per block. While CrackMaster Blend is still hot, it acts as a lubricant between the block and the existing pavement so that blocks will slide easily into their final position when pushed. Depending on the ambient temperatures this window of time to make adjustments in block placement is 15 to 25 seconds.

NOTE

The temperature of the heat transfer oil should not exceed 525°F. Do not heat CrackMaster Blend 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.

PACKAGING AND AVAILABILITY

CrackMaster Blend is supplied in both meltable packaging and cardboard cartons. 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.