SealMaster®
Pavement Products & Equipment

Technical Data Sheet

CRACKMASTER CJA COLD JOINT ADHESIVE

SMT-314

REVISED 08/20/19

PRODUCT DESCRIPTION

CrackMaster CJA is a hot-applied modified asphalt adhesive. It is used as an adhesive and tacking material on longitudinal cold construction joints on asphaltic pavements. The CrackMaster CJA fosters a long lasting seal between two sections of asphaltic pavement. It prolongs pavement service life by sealing the joints from water penetration, which cause base failure and potholes. CrackMaster provides excellent results in cold weather and through out repeated freeze/thaw cycles. CrackMaster CJA is formulated with select asphaltic resins, synthetic polymeric rubbers, plasticizers, stabilizers, and a blend of organic and inorganic reinforcing fillers.

- Flexible
- Economical
- Excellent Adhesion
- Rapid Melting
- Quick Set-Up
- Resists Flow

RECOMMENDED USES

CrackMaster CJA is applied 1/8 inch thick across the edge of the first paving pass. When the adjacent lane of asphaltic pavement is put into place, the heat from this material and the compaction of the roller cause the CrackMaster CJA to adhere to both lanes. This forms a durable bond between the two overlay passes. This product can also be used as a waterproofing agent on shoulder interfaces, around manhole covers and other utility cuts in asphaltic pavement.

SIZES

CrackMaster is packaged in 2-25 lb. poly-bags in a 50 lb. high strength corrugated box. Each pallet contains 48 boxes or approximately 2,400 lbs. of CrackMaster.

SURFACE PREPARATION

Proper surface preparation facilitates adequate adhesion and consequently the maximum life of the sealant. In order for proper adhesion, the joint must be free of moisture, dust, loose aggregate, and other contaminates. The substrate and air temperatures must be 40°F or above. The interface must be clean and dry prior to application of CrackMaster CJA.

MELTING & APPLICATION

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 CJA 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.

NOTE: The temperature of the heat transfer oil should not exceed 525°F. Do not heat CrackMaster CJA above the maximum heating temperature and do not maintain it at that temperature for prolonged periods of time. This could cause the material to gel in the equipment or fail in the joints. A significant viscosity increase accompanied by stringiness signals that approach of gelation. If this occurs, immediately remove the material from the melter and dispose of it.

TABLE 1- CHEMICAL & PHYSICAL ANALYSIS

Recommended Application Temperature	370-390°F
Maximum Heating Temperature	410°F
Penetration	60-100 Min.
Heating Time	12 Hours Max.
Resiliency	40% min
Flow at 140°F (5h)	3 mm Max.
Softening Point	170 F Min
Asphalt Compatibility	COMPATIBLE
Viscosity @ 375	40-100 poise
Flexibility @ 0F (1" Mandrel)	PASSES

COVERAGE

3-4 feet per pound using a 2-inch overlay.

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