

DURA-FILL[®] MA

Hot Applied Marker Adhesive

Description: Dura-Fill MA is a hot applied bituminous marker adhesive. When properly applied the material bonds markers and reflectors to concrete and asphalt pavements. It is a single component material formulated with select asphaltic resins and homogeneously mixed mineral filler. The marker adhesive does not contain rubber polymers.

Recommended Uses: Dura-Fill MA is suitable for bonding pavement markers to portland cement, asphaltic concrete, and chip sealed road surfaces.

Surface Preparation: Dura-Fill MA can be applied when road surface and marker temperatures are 40-160 F. Proper surface preparation facilitates adequate adhesion and consequently the maximum life of the adhesive. In order for proper adhesion, the pavement must be free of moisture, dust, loose aggregate, and other contaminants. Use oil-free compressed air and heat to clean and dry the pavement immediately prior to application. The marker should be applied to the adhesive immediately in ensure bonding.

Melting and Application: Dura-Fill MA may be melted in a **direct fired unit, a conventional oil jacketed unit, or an electrically heated kettle**. The material should be agitated while it is in the kettle. Carefully insert small quantities of Dura-Fill 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 Dura-Fill 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 the approach of gelation. If this occurs, immediately remove the material from the melter and dispose of it.

For further details read and follow the Dura-Fill MSDS, Installation Instructions for Direct Fired Dura-Fill Products, and P&T Products' Warranty.

- ◆ **Economical**
- ◆ **Excellent Adhesion**
- ◆ **Quick Set Up**

Specifications

ASTM D 4280, A1
ASTM D 4383, A1

Product Specifications

when tested in accordance with ASTM D 5329, 36, modified 3111, & 4402.

Heating Temp		410 F Max.
Application Temp		370-400 F
Heating Time		12 Hours Max.
Penetration	77 F	20 dmm Max.
Flow	140 F	5 mm Max.
Softening Point		200 F Min.
Viscosity	375 F	75 Poise Max.
Flash Point		400 F Min.
Optimum Climate		ALL Climate Zones

Packaging

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

P&T Products, Inc.

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