

Installation Instructions

DURA-FILL® & DURA-SHELL® Products

Details and product specifications can be found on the product data sheets. Further safety information can be found on the Safety Data Sheets (MSDS / SDS).

Melting & Application: All Dura-Fill & Dura-Shell products may be melted in oil-jacketed kettles. When using oil jacketed kettles, the temperature of the heat transfer oil should not exceed 525°F.

The following Dura-Fill & Dura-Shell materials may be melted in direct-fired or oil-jacketed kettles (some require mechanical agitation systems).

- Dura-Fill HS
- Dura-Fill HS 2
- Dura-Fill PL
- Dura-Fill PL – LP
- Dura-Fill DUO
- Dura-Fill LS
- Dura-Fill MA
- Dura-Shell PLS

Carefully insert small quantities of crack sealant into the melting equipment while the agitator is turned off. Load material slowly and do not agitate when adding product to avoid splash back. After the initial load has reached the recommended application temperature, fresh material may be added to the melter as sealant is used.

Dura-Fill & Dura-Shell can be applied using a pressure feed wand system or a pour pot. If using a wand system, purge material remaining in the kettle lines at the end of each sealing operation.

It is best practices to melt only the material that will be used during that day. However, Dura-Fill & Dura-Shell may be safely reheated as required. Do not heat Dura-Fill & Dura-Shell above the maximum heating temperature and do not maintain it at that temperature for prolonged periods of time. Prolonged heating at or above recommended application temperature may severely damage product.

Surface Preparation: Proper surface preparation facilitates adhesion and consequently the maximum service life of the sealant. For proper adhesion, the crack/joint must be free of moisture, dust, loose aggregate, and other contaminants. Use oil-free compressed air and heat to clean and dry the crack/joint immediately prior to sealing. Cracks/joints should be sized so that the maximum extension and compression does not exceed 50% of the width. Best results are obtained when the cracks/joints are opened at least ½ inch wide. The surrounding pavement should be sound.

Surface Configuration: Dura-Fill & Dura-Shell may be applied using a recessed fill, flush fill, or overband. In a recessed fill, sealant may be recessed 3/8" from the pavement surface. When using an overband the sealant should not exceed 1/16" thickness over the pavement surface. An overband should not extend further than 2" beyond each sidewall of the crack. Overbands are not recommended for sealants with high penetration values.

Pavement Temperatures: Apply product when pavement temperature exceeds 40 F. Air and ground temperatures are not the limiting factor, but rather the moisture, which is associated with a frozen surface. Lower temperatures may result in inadequate adhesion due to the presence of moisture. Using a hot air lance may extend the ability to apply crack sealant in lower temperatures. Care should be taken to ensure the cracks / joints are clean and dry. The job should be checked regularly for adequate adhesion.

Equipment Clean Out: If solvents are used to clean equipment, ensure adequate removal of solvents so that sealant contamination does not occur. Remove any debris from kettle. These types of contamination can alter the effectiveness and flash point of the sealant.

Storage: Dura-Fill & Dura-Shell are wrapped in layers of weather resistant / UVI covering. The wrapping must be intact to prevent the Dura-Fill boxes from getting wet. Wet Dura-Fill boxes may lose strength and pallets may collapse. Pallets should be stored on a dry and level surface. The Dura-Fill sealant is not affected by degrading boxes. Do NOT introduce water / moisture into the heating kettle. The moisture can cause frothing in the kettle.

Transportation: Check DOT requirements for transportation of product at elevated temperatures.

Safety Precautions: In applying hot pour crack sealant the user is working with adhesives at elevated temperatures, therefore, working safely is important. All users must be aware of hazards of melting and applying hot pour crack sealants. Personnel should read and understand the warnings on the box, the MSDS/SDS and accompanying literature. Safety precautions should include but are not limited to:

- Protective clothing, gloves, goggles to prevent skin contact with hot material
- Handling care when adding product to kettles to avoid splash back
- Careful operation of application equipment
- Traffic and pedestrian control measures
- Avoidance of material fumes
- Appropriate cleanup of excessive materials or spills

Additional Information: For additional information regarding Dura-Fill / Dura-Shell contact your distributor. The following resources can be found on the manufacturer's website www.P-TProductsInc.com

- Product Data Sheets
- Installation Instructions
- Safety Data Sheet (MSDS / SDS)
- Crack Sealant Selection & Application Guides



877-690-4093
www.P-TProductsInc.com