

DURA-SHELL® PLS

Crack and Joint Sealant in Meltable Packaging

Description: Dura-Shell PLS is a specialty grade, premium quality joint sealing compound. Dura-Shell PLS crack sealant has a low penetration at high ambient temperatures, high softening point, and low surface tack. Dura-Shell PLS is well suited for parking lot and driveway applications. Dura-Shell packaging is fully meltable.

Recommended Uses: Dura-Shell PLS 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.

Surface Preparation: Proper surface preparation facilitates adhesion and consequently the maximum service life of the sealant. In order for proper adhesion, the crack/joint must be free of moisture, dust, loose aggregate, and other contaminants. The substrate and air temperatures must be 40°F or above. Sawing, routing, and/or sandblasting are the preferred methods of preparation. 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 do not exceed 50% of the width. Best results are obtained when the cracks/joints are opened at least ½ inch wide.

Melting and Application: Dura-Shell PLS may be melted in **oil-jacketed or a direct-fired kettle with mechanical agitation and temperature control devices**. 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.

Note: The temperature of the heat transfer oil should not exceed 525°F. Do not heat Dura-Shell 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-Shell MSDS, Installation Instructions for Direct Fired Dura-Shell Products, and P&T Products' Warranty.

- ◆ **Low Penetration**
- ◆ **High Softening Point**
- ◆ **Self Leveling**
- ◆ **Flexible to 0F**
- ◆ **Resists Tracking**

Coverage

Width	Depth	Pounds/100 Linear Feet
3/8"	3/8"	7.4
3/8"	1/2"	9.9
1/2"	1/2"	13.2
1/2"	1"	26.4
3/4"	1/2"	19.8
3/4"	3/4"	29.7

Product Specifications

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

Heating Temperature	450	F Max.
Application Temperature	370-400	F
Heating Time	12	Hours Max.
Penetration	77 F	30 dmm Max.
Flow	140 F	0 mm Max.
Softening Point	210	F Min.
Low Temperature Flexibility	1" Mandrel Bend	0 F Max.
Specific Gravity	1.22	Approximately
Asphalt Compatibility	Pass	
Flash Point	400	F Min.
Optimum Climate	Average Temperatures	-17 / 60 C Or 0 / 140 F

Specifications

P&T Products' Specifications

Packaging

Dura-Shell PLS is packaged in 32 lb. meltable units. Each pallet contains 64 containers or 2,048 pounds of Dura-Shell.

P&T Products, Inc.

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