

DURA-FILL 320

Crack and Joint Sealant for Hot Climates

Description: **Dura-Fill 320** is a hot pour crack and joint sealant for portland cement and asphaltic pavements. As an economical and effective preventative maintenance treatment, **Dura-Fill 320** prolongs pavement service life by sealing cracks and joints from water penetration, which cause base failure and potholes. **Dura-Fill 320** is formulated with select asphaltic resins, synthetic polymeric rubbers, plasticizers, stabilizers, and a blend of organic and inorganic reinforcing fillers. When properly melted and applied, **Dura-Fill 320** forms a long-lasting seal to both cement and asphaltic pavements. The sealant resists tracking in warm climates.

Recommended Uses: **Dura-Fill 320** is recommended for sealing cracks and joints in portland cement, asphaltic pavements, and parking lots. It is designed to seal expansion and contraction joints, longitudinal cracks, joints between concrete and asphaltic shoulders, and random cracks.

Surface Preparation: Proper surface preparation facilitates adequate adhesion and consequently the maximum 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 1/2 inch wide.

Melting and 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 **Dura-Fill 320** 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 320** 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 it.

Typical Properties:

Recommended Application Temp	370 - 390°F
Maximum Heating Temp	410°F
Maximum Heating Time	12 Hrs.
Penetration	30 - 45
Resiliency	40% Min.
Flow 140°F	0 mm.
Softening Point	200°F Min.
Ductility, 77°F	30 cm.
Tensile Adhesion	500%
Viscosity, 375°F	60±10 poise
Flexibility, 20°F/1" Mandrel	Pass
Specific Gravity	1.18
Asphalt Compatibility	Compatible

Flexible to 20°F

Economical

Excellent Adhesion

Rapid Melting

Quick Set-Up

Resists Tracking

Specifications

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Specifications

Coverage

Width	Depth	Pounds/100
		Linear Feet
3/8"	3/8"	6.9
3/8"	1/2"	9.3
1/2"	1/2"	12.3
1/2"	1"	24.7
3/4"	1/2"	18.5
3/4"	3/4"	27.8

Packaging

Dura-Fill 320 is packaged in 2-30 lb. poly-bags in a 60 lb. high strength corrugated box. Each pallet contains 36 boxes or approximately 2,160 lbs. of **Dura-Fill**.

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