DURA-FILL® GRAY

Crack and Joint Sealant for Moderate Climates

Description: *Dura-Fill* Gray is a hot pour crack and joint sealant for portland cement and bleached asphaltic pavements. As an economical and effective preventative maintenance treatment, *Dura-Fill* prolongs pavement service life by sealing cracks and surface joints from water penetration which causes base failure and potholes. *Dura-Fill* Gray is a single component mix of asphaltic resins, synthetic polymeric rubbers, plasticizers, stabilizers, and a blend of organic and inorganic reinforcing fillers. When properly melted and applied, it forms a resilient and adhesive compound for both cement and asphaltic pavements. *Dura-Fill* Gray forms a long-lasting seal which resist tracking in warm temperatures and cracking in cold.

Recommended Uses: *Dura-Fill* Gray is recommended for sealing joints and cracks in portland cement and bleached 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 contaminates. 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: Melt *Dura-Fill* Gray using a conventional **oil-jacketed kettle** equipped with agitator and temperature control devices for both the material and the heat-transfer oil. 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 melting 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

For further details read and follow the Dura-Fill Gray Series *SDS, Installation Instructions for Oil Jacketed Dura-Fill products, and P&T Products' Warranty.*

Product Specifications*

Heating Temperature		400 °F Max.
Application Temperature		370 to 390 °F
Heating Time		12 Hours Max.
Penetration	77 °F	90 dmm Max.
Flow	140 °F	5 mm Max.
Bond	50% Extension at 0 °F	Pass 5 Cycles
Softening Point		176 °F Min.
Viscosity	375 °F	100 Poise Max.
Specific Gravity		Approximately 1.29
Asphalt Compatibility		Pass
Flash Point		400 °F Min.
Optimal Climate	Average Temperatures	0 to 90 °F (-17 to 32 °C)

* Specifications are as tested according to ASTM D 5329, 36, modified 3111, & 4402.

- **Flexible to 0 °F**
- **Versatile Color**
- **Excellent Adhesion**
- **Rapid Melting**
- **Resists Tracking**
- **Sets-Up Quickly**

Coverage

Width	Depth	Pounds/100 Linear Feet
3/8"	3/8"	7.9
3/8"	1/2"	10.5
1/2"	1/2"	14.0
1/2"	1"	28.1
3/4"	1/2"	21.0
3/4"	3/4"	31.6

Specifications

ASTM D 1190
ASTM D 6690 Type I
AASHTO M 173
AASHTO M 324 Type 1
Fed. Spec. SS-S-164
FAA P 605
EN 14188N2

Application Equipment

Equipment for applying *Dura-Fill* Gray is available for rent. Please call for details.

Packaging

Dura-Fill Gray is packaged in 30 lb poly bags and boxed in high-strength corrugated cardboard. Each pallet contains 75 boxes or 2,250 lb of sealant.

P&T Products

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