

# DURA-FILL® 3405

## Crack and Joint Sealant for Moderate to Cold Climates

**Description:** Dura-Fill 3405 is a premium crack and joint sealant for portland cement and asphaltic pavements. As an economical and effective preventative maintenance treatment, Dura-Fill 3405 prolongs pavement life by sealing cracks and joints from water penetration, which cause base failure and pot holes. Dura-Fill 3405 is a hot applied, one part material that provides excellent results in cold weather and throughout repeated freeze/thaw cycles. Dura-Fill 3405 offers high resiliency, ductility and resistance to weathering. Dura-Fill 3405 forms a long-lasting seal which resists tracking in warm temperatures and remains flexible in cold temperatures.

**Recommended Uses:** Dura-Fill 3405 is recommended for sealing cracks and joints 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 to occur, 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:** Melt Dura-Fill 3405 using a conventional **oil jacketed kettle** equipped with agitator and temperature control devices for both the material and 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 kettle lines at the end of each sealing operation.

**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 SDS, Installation Instructions for Oil Jacketed Dura-Fill Products and P&T Products' Warranty.*

### Product Specifications

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

Maximum Safe Heating Temperature	400° F Max.
Application Temperature	370-390° F
Heating Time	12 Hours Max.
Penetration	77° F 90 dmm Max.
Resiliency	77° F 60 % Min.
Flow	140° F 3 mm Max.
Bond	-20° F / 50 % Extension 3 Cycles Passed
Bond	0° F / 100 % Extension 3 Cycles Passed
Softening Point	176° F Min.
Viscosity	375° F 50 Poise Max.
Specific Gravity	1.19 Approximately
Asphalt Compatibility	Pass
Flash Point	400° F Min.
Optimum Climate	Average Temperatures -29 / 26° C Or -20 / 80° F



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- ◆ **Most Widely Specified Class of Crack Sealant for Road & Highway Use**
- ◆ **Rapid Melting**
- ◆ **Resists Tracking**

### Coverage

Width	Depth	Pounds/100 Linear Feet
3/8"	3/8"	7.2
3/8"	1/2"	9.6
1/2"	1/2"	12.8
1/2"	1"	25.7
3/4"	1/2"	19.3
3/4"	3/4"	28.9

### Specifications

ASTM D 3405  
ASTM D 6690 Types 2 & 3  
AASHTO M 301  
AASHTO M 324 Types 2 & 3  
Exceeds  
ASTM D 1190  
ASTM D 6690 Type 1  
AASHTO M 173  
AASHTO M 324 Type 1  
Fed. Spec. SS-S-164  
SS-S-1401C  
FAA P 605

### Packaging

Dura-Fill is packaged in 30 lb poly bags and boxed in high-strength corrugated cardboard. Each pallet contains 75 boxes or 2,250lb of Dura-Fill. The product is also available in Dura-Melt™ consumable packaging. Each pallet holds 64 meltable 30 lb boxes or 1,920 lb of sealant.