

DURA-FILL 3405

Crack and Joint Sealant for Cold Climates

Description: **Dura-Fill 3405** is a premium quality 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 formulated with selected asphaltic resins, synthetic polymeric rubbers, plasticizers, stabilizers, and a blend of organic and inorganic reinforcing fillers. It is a hot applied, one part material that provides excellent results in cold weather and throughout repeated freeze/thaw cycles. It has superior bonding characteristics to both asphalt and cement surfaces. **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, asphaltic pavements, and parking lots. 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 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 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 3405** 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 3405** 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 cracks/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.

Typical Properties:

Recommended Application Temp	370 - 390°F
Maximum Heating Temp	410°F
Maximum Heating Time	12 Hrs.
Penetration (150 gr./5 sec)	90 Max.
Resiliency	60% Min.
Flow at 140°F	3 mm Max.
Bond, -20°F/50% Ext	Passes 3 Cycles
0°F/100% Ext	Passes 3 Cycles
Specific Gravity	1.14
Asphalt Compatibility	Compatible

Flexible to -20°F

Rapid Melting

Self-Leveling

Excellent Adhesion

Quick Set-Up

Resists Tracking

Specifications

ASTM-D3405
ASTM-D6690 Type II & III
AASHTO-M301
Exceeds
ASTM-D1190
ASTM-D6690 Type I
AASHTO-M173
Fed. Spec. SS-S-1401

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 3405 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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