

Dura-Fill 3405

Crack and Joint Sealant Compound

Description: Dura-Fill 3405 is a premium quality joint and crack sealing compound for portland cement and asphaltic pavements. It is an economical and effective preventative maintenance treatment that prolongs the pavement service life. Dura-Fill 3405 seals cracks and surface joints from water penetration, which cause base failure and penetration 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 even 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. It remains flexible in low temperatures and will not flow or track at elevated temperatures.

Recommended Uses: Dura-Fill 3405 is recommended for sealing of joints and cracks 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.

Joint Preparation: Proper surface preparation facilitates adequate adhesion and consequently the maximum service life of the sealant. In order for proper adhesion, the crack must be free of moisture, dust, loose aggregate, and other contaminants. The substrate and air temperatures must be 40o 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. Joints should be sized so that the maximum extension and compression do not exceed 50% of the width. Best results are obtained when the joints are opened at least ½ 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 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 525o F. Do not heat Dura-Fill 3405 above the maximum heating temperature or 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.

Flexible to -20o F

Rapid Melting

Self-Leveling

Excellent Adhesion

Quick Set-Up

Resists Tracking

Specifications:

ASTM-D3405

AASHTO-M301

Exceeds

ASTM-D1190

AASHTO-M173

Fed. Spec.

SS-S-1401

Coverage

Width Depth Pound/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 pounds of Dura-Fill.

Recommended Pour Temp.....370-390o F

Maximum Heating Temp.....410o F

Recommended Extended Heating.....6 Hrs

Penetration (150 gr. /5 sec).....90 Max.

Resiliency.....60% Min.

Flow at 140o F.....3 mm Max.

Bond -20o F /50% Ext.....Passes 3 Cycles

0o F/100% Ext.....Passes 3 Cycles

Specific Gravity.....1.14

Asphalt CompatibilityCompatible