

Hot-Applied, Single Component, Polymeric Joint Sealant

DESCRIPTION:

RepJoint 3405 is a quality, hot-applied, single-component polymeric compound. It offers excellent bonding properties, high resiliency, and resistance to degradation from weathering.

FEATURES:

- Highly resilient in extreme conditions
- Excellent, durable bond
- New as well as old concrete joints
- Outstanding bonding properties
- High load bearing capacity
- Resists the effects of freeze-thaw cycling
- Excellent water repellency
- Fast drying in any temperatures

USES:

- Restoration of older concrete pavement
- Sealing joints in new concrete decks
- Airports & Highways
- Random cracks in asphalt & concrete

TECHNICAL DATA:

ASTM D3405
ASTM D1190
ASTM D6690, Type I, II and III
AASHTO M 173
AASHTO M 324
Corps. of Engineers, CRD C 530
FAA P-605
Federal Specification SS-S-1401C

PRECAUTIONS:

Cracks must be free from moisture, dust, dirt, and debris. Both substrate and air temperature must be above 40°F. Keep boxes of material dry during storage. Do not store in direct sunlight.

LIMITATIONS:

Do not overheat material. Cracks must be free from moisture, dust, loose aggregate and other contaminants prior to application.

COVERAGE GUIDE:

Estimating material requirements (based upon pounds of material needed for 100 feet of cracks):

Crack Width	Depth	lbs. /100feet
3/8"	3/8"	6.9 lbs.
3/8"	1/2"	9.3 lbs.
1/2"	1/2"	12.3 lbs.
1/2"	1"	24.7 lbs.
3/4"	1/2"	18.5 lbs.
3/4"	3/4"	27.8 lbs.

The above coverage rates are only a guideline. Actual material usage may vary due to width of application and thickness of material above pavement surfaces.

PACKAGING:

RepJoint 3405 is supplied in 50 lb. cardboard cartons containing two 25 lb. blocks of material per carton.

COLOR:

Black

INSTALLATION:

Proper surface preparation will facilitate adequate adhesion and consequently the maximum service life of the sealant. The crack must be free from moisture, dust, and loose aggregate. Routing or wire brushing are preferred methods followed by a compressed air heat lance immediately prior to sealing. The substrate and air temperature must be above 40°F. Application of sealant into frozen or wet pavement will result in loss of bond and premature failure of the sealant.

Methods:

RepJoint 3405 shall be melted in a conventional oil jacketed unit equipped with an agitator and temperature control device for both material and heat transfer oil. Carefully insert blocks of material (with plastic bag) into melting equipment with agitator turned off. Load material slowly to avoid splashing. After the initial load of material has reached the recommended pouring temperature (370-390°F), fresh material may be added as sealant is used. Melt only enough material that will be used the same day.

Avoid overheating material. Excessive heat could cause material to gel in the equipment or fail in crack and 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.

IMPORTANT:

Protective apparel is recommended with application of **RepJoint 3405**. The extremely hot material will cause severe burns on contact with skin. OSHA Safety Regulations require workers to wear the following types of safety attire (see current OSHA/Safety Regulations for additional information): Hard hat with face shield; long sleeved shirt buttoned at the wrist; heat resistant gloves; long, cuffless pants; and safety toed work boots. Make certain all area around melter is clear of all debris and flammable materials. Avoid breathing vapors. Use with adequate ventilation.

MIXING PROCEDURES:

Use material as supplied. Do not blend with other materials. After **RepJoint 3405** is melted it should be agitated or recirculated.

APPLICATION:

Apply heated **RepJoint 3405** using either a pump and wand system or a pour pot. For best results, the sealant depth to width ratio should not exceed 2 to 1 (i.e., 2-inches deep to 1-inch wide). The cooled sealant height should not exceed 1/8" above surrounding pavement. Using a sealing shoe or squeegee, band the material 2 to 3 inches wide over the crack.

WARRANTY:

Due to the use of this product beyond our control, we assume no liability for damages of any kind, and the user accepts the product "as is" and without warranties, expressed or implied, from either **TuffTex Materials, Inc.** or its agents. The suitability of the product for an intended use shall be solely up to the user. Our only obligation shall be to replace or pay for any material proved defective, with our liability limited to the purchase price of materials supplied by us.

PHYSICALS:

TEST	TYPICAL RESULTS
Penetration, mm/10	80
Resilience, %	60 min.
Resilience %, Oven Aged	60 min.
Flow, cm	0.1
Bond test, 50% (non-immersed) extension @ -20° F (-29° C) (3 Cycles)	Pass
Bond test, 50% (immersed) extension @ -20° F (-29° C) (3 Cycles)	Pass
Viscosity @ 380° F (183° C), CPS	2000
Wt. per gallon, lb.	10
Wt. per liter, kg.	1.20
Recommended pouring temp.	370° F (188° C)
Recommended max. safe heating temp.	390° F (199° C)
VOC Content, g/L	0
Cone Penetration at 77° F (25° C)	90 Max
Specific Gravity	1.14
Viscosity (poise)	35 ± 2
Asphalt Compatibility	Pass

READ SDS PRIOR TO USING THIS PRODUCT!

