CRACK-RITE™
The Pavement Life Extender™

CRACK•STIX™

Direct Heat "Rubberized" Crack & Joint Sealant

PRODUCT DESCRIPTION

CRACK-STIX™ are a superior quality, direct heat, crack and joint sealant. They consist of asphalt cement highly modified with only the best virgin oils, resins, polymers, plasticizers and stabilizers. CRACK-STIX™ are furnished as a solid in 1/4", 1/2" and 3/4" stick (rope) configurations. It is an elastomeric, self-leveling sealant, which liquefies quickly and can be used in both asphalt and concrete pavements. When properly applied, it combines tenacious adhesive power with extraordinary resiliency to protect against the infiltration of moisture or incompressibles through repeated thermal cycles of expansion and contraction. CRACK-STIX™ exhibit superior low temperature ductility, weather resistance, low oxidation breakdown and is non-tracking. It is the only sealant available which is designed to be inserted into the crack or joint cavity first and then melted with a direct heat process. The modifier system contained in CRACK-STIX™ allows the material to withstand direct heat without experiencing degradation.

PRODUCT USE

CRACK-STIX™ are recommended for sealing cracks and joints in Portland Concrete and asphaltic cement pavements. It is a multi purpose joint sealant which requires no melting kettles. CRACK-STIX™ exhibit incredible flexibility and resiliency and will create a permanent bond between asphalt to asphalt, asphalt to concrete and concrete to concrete.

PHYSICAL PROPERTIES TEST	TEST RESULTS
Cone penetration @ 77°F (25°C) 150g., 5S	35-45
Resilience @ 77°F (25°C) (ASTM D-3407)	70%
Flow @ 140°F (60°C)	0 mm
Asphalt compatibility (ASTM D3407)	pass
Softening point (ASTM D36)	210°F (99°C)
Ductility 39.2°F (ASTM D-113)	40 cm
Elongation	1800%
Drying Time (traffic ready)	20 minutes

CRACK AND JOINT PREPARATION

Loosen and remove all existing sealant, fillers, plants, grass, roots, sand, dirt or other impediment from crack & joint interfaces. The following tools may be used:

- Hand tools, (i.e., screwdriver, shovels, metal bars with chisel-shaped ends, stiff bristle brooms, wire brushes or scrapers)
- Pavement router - vertical spindle or rotary type
- Backpack blower or oil free compressed air, capable of furnishing (90 PSI) pressure at nozzle.

Important: Make sure the cracks and pavement surface are swept/air blown thoroughly clean. Cracks/joints over 1" deep should be pre-filled with a non-shrinking, non-absorbent backer rod. Material should be 25% wider than crack so that it does not slip down or float out of crack after installation of sealant.

Method of Application

The sealant is designed to be applied 1/16"-1/8" below the pavement surface - IN IT, NOT ON IT. Cut the appropriate size of CRACK-STIX™ for the crack/joint you want to seal (push a screwdriver down on stix on the pavement surface to cut the stix to size). Take the cut CRACK-STIX™ and push it down into the crack/joint, inch by inch, until it is approximately 1/8" from the top of the surrounding pavement (slight recess for expansion and contraction). When sealing cracks/joints over 3/4" deep, multiple applications of CRACK-STIX™ may be necessary to fill crack as specified. Liquefy stix completely and let cool before applying additional material.

WARNING: Pre-warm asphalt/concrete joint prior to stix application. Cavity must be totally dry to ensure a positive seal. Use extreme caution when heating concrete. ENTRAPPED MOISTURE OR FROST MAY CAUSE CONCRETE TO "POP" OR "SPALL".

Melting Equipment

CRACK-STIX™ do not require direct fired or oil jacketed kettles. The sealant can be melted by using a self-igniting propane torch. Holding flame 1-1/2" from CRACK-STIX™, move the flame from side to side in a slow and even motion until the stix are completely liquefied. Melting time may vary due to wind, ambient temperature or thickness of stix. Do not overheat asphalt adjacent to crack or joint which is being repaired.

Material Temperature Recommendations

CRACK-STIX™ will flow readily when heated to a liquid state, which generally takes 1-2 minutes per lineal foot. Productivity may vary depending upon type of heating equipment used..

Material Limitations

Do not apply CRACK-STIX™ in wet cracks or where frost, snow or ice is present. The pavement temperature shall be above 40°F (4°C) at the time of installation.

Application of sealant to damp or improperly cleaned surfaces may result in a low degree of adhesion which can cause the sealant to pull out of the cracks/joints.

Packaging

CRACK-STIX™ are manufactured in three (3) size thicknesses, 1/4", 1/2" and 3/4". The material is packaged in the following configurations:

	1/4"
2 gal. pail	300 LF