

Description

TIC 3020 F-R C.I. Mastic is tough, durable, high solids vapor barrier and weather coating for the protection of thermal insulation in outdoor service. Its excellent weather and fire resistance make it suitable for use in place of conventional asphalt cutback mastic. It is ideal surface coating for low temperature insulating applications where the insulation used not affected by mild solvents.

TIC 3020 F-R C.I. Mastic may use it on heated lines, vessels and equipment in intermittent or dual temperature service to prevent the entrance of water vapor into the insulation during off periods or on cold cycles. It is outdoor rated and U.V resistant.

TIC 3020 F-R C.I. Mastic contains no asbestos, lead, mercury, or mercury compounds.

Properties

Property	Specification	Test method
Color	Black	TSTM-01
Application	Trowel or glove	TSTM-06
Density	1.15 ± 0.05 kg/ℓ	ASTM D 1475
Volume non-volatile	70 ± 1 %	ASTM D 1644
Weight non-volatile	81 ± 1 %	ASTM D 1644
Coverage	4.93 kg/m ² (4.29 ℓ/m ²) Dried film thickness: 3.0 mm	TSTM-07
Drying time	Set to touch: 6 hours Dry through: 6 days	ASTM D 1640
Service temperature limits	(Temperature at coated surface) -40 °C ~ 93 °C (-40 °F ~ 200 °F)	TSTM-04
Water vapor permeance	≤ 0.017 perms (DFT 2.9 mm)	ASTM E 96
Wet flammability	≥ 44 °C (111 °F)	ASTM D 93
Surface burning characteristics	Classification: CLASS A Flame spread: 15 (0~25) Smoke developed: 55 (0~450) Surface: Applied over fiber reinforced cement board at a coverage rate of 25 sq.ft/gal (0.61 m ² /ℓ)	ASTM E 84

Limitations

Store and apply between 4 °C (40 °F) and 38 °C (100 °F).

TIC 3020 F-R C.I. Mastic may weather to a dark gray color.

Always test plastic materials for compatibility when using solvent-based product. Do not use on polystyrene foam.



Thermal Insulation Chemicals

TIC CORPORATION

Application Guide

TIC 3020

F-R C.I. Mastic

Material Preparation

DO NOT THIN. Do not use sticks or boards, which would splinter or otherwise contaminate the product. Apply only to clean, dry, oil-free surfaces. Keep container closed when not in use. TIC 3020 F-R C.I. Mastic cannot successfully apply by brush. TIC 3020 F-R C.I. Mastic cannot apply by spray.

Application

- 1. Outdoor and Heavy Duty Service** - Apply a tack coat of TIC 3020 F-R C.I. Mastic at a thickness of 1/16 inch (1.6 mm). This is equivalent to 4 gallons per 100 square feet (1.6 ℓ/m^2). Smooth membrane to avoid wrinkles and overlap all seams at least 2 inches (5 cm). Apply a finish coat of TIC 3020 F-R C.I. Mastic at a minimum thickness of 1/8 inch (3.2 mm). This is equivalent to 8 gallons per 100 square feet (3.3 ℓ/m^2). This finish coat shall apply no later than 1 hour after the tack coat and shall completely cover membrane. This application shall provide a minimum dry film thickness of 131 mils (3.0 mm).
- 2. Trowel** - Use clean tools and equipment. Work in long, even strokes to insure uniform thickness. Wet tools in mineral spirits (flammable) are occasionally to prevent build-up of dried mastic.

Clean-up

Clean tools and equipment with mineral spirits (flammable) or chlorinated solvent (non-flammable).

Note

Important: We make no other warranties and expressly disclaim any warranties of merchantability or fitness for a particular purpose. If a product fails to meet this limited warranty, purchaser's sole and exclusive remedy is replacement of the product or, at our option, refund of the purchase price. Our acceptance of any orders for the product is expressly conditional upon purchaser's assent to the terms on the applicable invoice.

Adequate Tests: The information contained herein we believe is correct to the best of our knowledge and tests. The recommendations and suggestions herein are made without guarantee or representation as to results. We recommend that adequate tests be performed by you to determine if this product meets all of your requirements. The shelf life can be affected by storage and handling conditions. When products are stored in the original unopened container in an enclosed area and protected from contamination, moisture and extreme temperatures, the warranted shelf life is twelve months from the date of shipment to the original purchaser.