



90-10 FOSTER H.I. MASTIC™

Colour

Black

Application Consistency

Trowel

Weight per Litre (NFT 30-020)

1.0 kg

Average Non-Volatile

54% by volume

Coverage Range (FSTM 71)

(Subject to nature of material being coated.)
Wet coverages shown below are for smooth non-porous surfaces. Porous or rough surfaces will require higher volume to attain required dry thickness.

Dry Thickness: 0.112 in. (2.8 mm) to 0.123 in. (3.1 mm)
Equivalent Wet Coverage: 0.25 in. (6.4 mm) 16 gallons per 100 sq. ft. (6.5 l/m²)

Service Temperature Limits (FSTM 70)

(Temperature at coated surface)
Minus 18°C to 93°C

Drying Time (ASTM C461-64)

Touch: 8 hours at 15°C
24 hours at -7°C
Through: 7 days at -7°C

Water Vapour Permeance (ASTM F 1249)

1.0 perm at 1/8 in. dry film thickness
(0.7 metric perm at 3.2 mm)

Surface Flame Spread (ASTM E 162)

135 on ¼ in. (6.4 mm) inorganic reinforced cement board. (The flame spread may vary at different product thicknesses and/or when applied over other surfaces.)

FOSTER H.I. MASTIC is a durable protective weather coat for use over thermal insulation where an economical breathing mastic is required.

H.I. Mastic is an asphalt emulsion. It will not shrink or crack during curing. It has good weathering stability and develops with its final resistance to acids, alkalis, abrasion and other abuses typical of outdoor industrial conditions. It has no heat flow, remaining hard and stable under all normal operating temperatures. 90-10 complies with rule 442, subsection (head of the Southern California Air Pollution Control District). They do not contain photochemically reactive solvent as defined by rule 102, of the Southern California air Pollution Control District. User must make his own determination that emissions from the use of this product will not exceed the provision of Rule 442. 90-10 meets FDA Regulations for food additives as listed in CFR Title 21, revised as of June 1997, being composed of ingredients acceptable for packaging and transporting food. 90-10 is chemically acceptable to the U.S. Department of Agriculture for use in meat and poultry processing areas under federal inspection, acceptance dated October 28, 1956.

Limitations

Protect H.I. Mastic from freezing in storage. Exposure to severe freezing conditions during application or between application and full cure, may cause cracks in the cured film. As with all asphalt emulsion products, application over insulations containing soluble salts may show efflorescence or white salt deposits on the surface if water is present in the insulation. Efflorescence may be removed by normal rainfall or washing after mastic is dry but may recur if water continues to be present in the insulation. Drying times shown are for 50% relative humidity. Higher humidity will prolong drying time, while lower humidity will accelerate drying time.

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FSTM: Foster Standard Test Method



FOSTER H.I. MASTIC™ 90-10

Material Preparation

Do not thin. Stir well, but 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. Cement coats must be dry

Application

(To prevent water infiltration, properly flash all penetrations.)
(Prime dusty insulation or porous cements first.)

Mast-A-Fab® Reinforcement

1. Apply tack coat of H.I. Mastic at 8 gal. per 100 sq. ft. (3.3 l/m²) by spray or trowel.
2. Embed Mast-A-Fab white membrane into the wet tack coat. Smooth membrane to avoid wrinkles and overlap all seams at least 2 inches (51 mm). Apply finish coat of H.I. Mastic at 8 gal. per 100 sq. ft. (3.3 l/m²). The second coat shall be applied immediately following the initial set of the first coat while it is still damp.
3. This application shall provide a minimum dry film thickness of 112 mils (2.8 mm).

Hex Mesh Reinforcement

1. Over the insulation (cement), tightly stretch one inch hexagonal mesh wire in place and secure by wiring to anchors, with edges tied tightly together.
2. Apply tack coat of H.I. Mastic by trowel or spray at a minimum coverage of 8 gal. per 100 sq. ft. (3.3 l/m²). Using a steel trowel, force the mastic through and around the mesh, striking it flush with the surface of the wires.
3. Apply finish coat of H.I. Mastic at the rate of 8 gal. per 100 sq. ft. (3.3 l/m²). The finish coat shall be applied immediately following the initial set of the tack coat and while still damp.
4. This application shall provide a minimum dry film thickness of 112 mils (2.8 mm). Because of surface irregularities, some thicker areas will result. To avoid cracking, do not exceed 160 mils (4.1 mm) dry thickness.

Trowel

Apply evenly with a minimum of overworking of material. May be applied with a rubber glove on small radius pipes and vessels.

Clean-Up

Clean equipment with clean fresh water before mastic dries, followed by mineral spirits (flammable) or chlorinated solvent (non-flammable). Use mineral spirits or chlorinated solvent after mastic dries.

For industrial use only.

This data sheet is based on specifications, data and test results available to us at the time of publication. In the course of time changes herein may (have) take(n) place. No guarantee as to completeness, accuracy or results is either expressed or implied. The suitability to an intended use is the responsibility of the user. As material-choice, method of application and site conditions are beyond our control, we accept no liability for direct or consequential damages; our only obligation being to resupply ex our stores any material that is proved to be defective within the published* shelf life.

* If not applicable, within 6 months from date of supply.