



## PROPERTIES

**COLOR:**  
Black

**APPLICATION CONSISTENCY:**  
Trowel

**AVERAGE WEIGHT/U.S. GALLON (ASTM D 1475):**  
8.7 lbs. (1.0 kg/l)

**AVERAGE NON-VOLATILE (ASTM D 1644):**  
50% by volume (52% by weight)

**COVERAGE RANGE (FSTM 72):**  
(Subject to type of surface being coated.) Wet coverages shown below are for smooth non-porous surfaces. Porous or rough surfaces may require higher gallonage 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/m<sup>2</sup>)

**DRYING TIME (ASTM C 461):**  
Touch: 8 hours at 73°F (22.8°C)  
Through: 24 hours at 73°F (22.8°C)

**WATER VAPOR PERMEANCE (ASTM F 1249):**  
1.0 perm at 1/8 in. dry film thickness  
(0.7 metric perm at 3.2 mm)

**SERVICE TEMPERATURE LIMITS (FSTM 70):**  
(Temperature at coated surface)  
Minus 20°F to 200°F (-29.0°C to 93.3°C)

**WET FLAMMABILITY (ASTM D 3278):**  
Greater than 200°F (93°C)

**SURFACE FLAME SPREAD (ASTM E 162):**  
135 on 1/4 in. (6.4 mm) inorganic reinforced cement board. (The flame spread may vary at different product thicknesses and/or when applied over other surfaces.)

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## FOSTER H.I. MASTIC®

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

**FOSTER H.I. MASTIC** is an asphalt emulsion. It will not shrink or crack (particularly at the critical right angle bends) during curing. It has exceptional weathering stability and develops with its final set a firm, durable surface with good 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.

**FOSTER H.I. MASTIC** meets requirements for LEED IEQ 4.2 Low-Emitting Materials, Paints and Coatings.  
VOC: 21 g/l, less water and exempt solvents.

**FOSTER H.I. MASTIC** contains no asbestos, lead, mercury, or mercury compounds.

### LIMITATIONS

Store and apply between 40°F (4°C) and 100°F (38°C).  
Protect from freezing until dry.

As with all asphalt emulsion products, application over insulations or cements containing soluble salts may show efflorescence or white scale 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.

To resist rain washoff, allow at least 24-48 hours drying time above 60°F (16°C), with a relative humidity of 50%. Higher humidity or lower temperatures may retard drying.

H.I. Mastics may dry and weather to a dark gray color.

Outdoor horizontal surfaces must always drain completely. A pitch of at least 1/2 inch per foot (4 cm/m) is required.

Not recommended for indoor use.

Always test foil and paper facings for acceptable adhesion before using.

# APPLICATION GUIDE FOR FOSTER H.I. MASTIC® 90-07

## 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.

**This product cannot be successfully applied by brush or spray.**

## APPLICATION - OUTDOOR AND HEAVY DUTY SERVICE (To prevent water infiltration, properly flash all penetrations.)

(Prime dusty insulation or porous cements with an asphalt primer.)

## MAST-A-FAB® REINFORCEMENT

1. Apply tack coat of H.I. Mastic at 8 gal. per 100 sq. ft. (3.3 l/m<sup>2</sup>) by 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/m<sup>2</sup>). 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 128 mils (3.2 mm).

## HEAVY DUTY APPLICATIONS - UP TO 50% GREATER TENSILE STRENGTH

Apply as above, substituting Chil-Glass #5 as the reinforcing membrane. Note that the membrane weave pattern will show through the dried mastic.

## 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.

## CUSTOMER SERVICE: 800-231-9541

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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 warranted shelf life of our products is six months from date of shipment to the original purchaser.

**For professional use only. Keep out of reach of children.  
Consult Material Safety Data Sheet and container label for further information.**