



## PROPERTIES

**COLOR:**  
White

**APPLICATION CONSISTENCY:**  
Brush or airless spray

**AVERAGE WEIGHT / U.S. GALLON (ASTM D1475):**  
11.5 lbs. (1.38 kg/l)

**AVERAGE NON-VOLATILE (ASTM D2369):**  
58% by volume (70% by weight)

**COVERAGE RANGE:**  
Subject to the 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.  
4 – 6 gallons per 100 square feet (1.6 – 2.4 l/m<sup>2</sup>) 0.064 – 0.096 in. wet thickness (1.6 – 2.4 mm)

**DRYING TIME 73°F (23°C) 50% RH:**  
Set to Touch: 4 Hours  
Dry Through: 24 Hours

**SERVICE TEMPERATURE LIMITS:**  
Temperature at coated surface.  
-20°F to 180°F (-29°C to 82°C)

**WATER VAPOR PERMEANCE (TYPICAL AVERAGE):**  
Tested with reinforcing mesh.

ASTM E96, PROCEDURE A:  
0.05 perms (0.03 metric perms) at 47 mils dft (1.2 mm)  
0.03 perms (0.02 metric perms) at 73 mils dft (1.9 mm)  
ASTM F1249: 0.08 perms (0.05 metric perms) at 37 mils dft (0.94 mm). Tested at 100°F (38°C) and 90% RH.

VAPOR-SAFE<sup>®</sup> COATING AF meets the permeance requirements of ASTM C755-19 for below ambient vapor retarder coatings.

**WET FLAMMABILITY:**  
Flash Point: None to boiling, 212°F (100°C)

**SURFACE BURNING CHARACTERISTICS (ASTM E84):**  
Flame Spread: 15  
Smoke Developed: 30  
Tested at coverage rate of 25 sq. ft./gal. (0.61 m<sup>2</sup>/l) in a 4" strip. Applied to 1/4 inch (6.4 mm) inorganic reinforced cement board. The flame spread may vary at different product thicknesses and/or when applied over other surfaces.

**FUNGAL RESISTANCE (ASTM D5590):**  
Rating = 0

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## FOSTER<sup>®</sup> VAPOR-SAFE<sup>®</sup> COATING AF (Fungus Resistant)

FOSTER<sup>®</sup> VAPOR-SAFE<sup>®</sup> COATING AF is a water-based, fire-resistant, flexible, high solids, vapor retarder finish for most types of thermal insulation, including polystyrene foam. It may be used over dry concrete and finishing cement. It is designed for use in high humidity areas to resist mold, fungus and mildew growth on its surface and protect the insulation system from their discoloring and deteriorating effects.

VAPOR-SAFE<sup>®</sup> 30-80AF<sup>™</sup> has the water resistance and low water vapor permeance normally only found in solvent-based products. It can be used in high humidity environments and greatly retards water vapor permeation. It is non-flammable in the wet state.

VAPOR-SAFE<sup>®</sup> 30-80AF<sup>™</sup> is formulated for both indoor and light duty, commercial, outdoor use. It is UV resistant. It has a mild, latex "paint-type" odor, and is designed for use over insulation on pipes, vessels, ducts and equipment operating below ambient temperatures.

VAPOR-SAFE<sup>®</sup> 30-80AF<sup>™</sup> is ideal for vapor sealing ASJ, FRK and FSK jackets and board facings at joints, laps and over staple and weld pin punctures. It is an excellent duct board closure sealant. Do not exceed 1/8" (3.2 mm) wet film thickness.

VAPOR-SAFE<sup>®</sup> 30-80AF<sup>™</sup> meets the requirements of Military Specification MIL-PRF-19565D, Type II.

VAPOR-SAFE<sup>®</sup> COATING 30-80AF<sup>™</sup> meets the requirements of:

- MAS Certified Green<sup>®</sup>
- California Dept. of Public Health Standard Method v1.2
- VOC Emissions and Content requirements to contribute to **LEED v4** EQ Credit: Low Emitting Materials – Paints and Coatings
- Collaborative for High Performance Schools EQ 7.1

VOC Content: 36 g/l, less water and exempt solvents.



### LIMITATIONS

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

To resist rain wash-off, allow at least 8-12 hours drying time above 50°F (10°C), with a relative humidity of 50%. Higher humidity and/or lower temperature may retard drying.

Always select coating in the white color for use over polystyrene on outdoor installations. After long term exposure, 30-80AF<sup>™</sup> may weather to an off-white color.

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

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

This product does not protect users or others against bacteria, viruses, germs or other disease organisms. It does not take the place of normal cleaning and disinfecting procedures.

# APPLICATION GUIDE FOR FOSTER® VAPOR-SAFE® COATING 30-80AF™

## MATERIAL PREPARATION

Stir well, DO NOT THIN. Apply only to clean, dry, oil-free surfaces. Keep container closed when not in use.

## APPLICATION

To prevent water vapor and moisture infiltration, proper and complete flashing is required. Follow flashing specifications.

### INDOOR AND LIGHT DUTY OUTDOOR

1. Apply tack coat of Foster® VAPOR-SAFE® Coating AF at 2 – 4 gallons per 100 square feet (0.8 – 1.6 l/m<sup>2</sup>).
2. Embed Foster® MAST-A-FAB® White Membrane into the wet tack coat. Smooth membrane to avoid wrinkles and overlap all seams at least two inches (5 cm). Apply finish coat of VAPOR-SAFE® Coating AF, within 1/2 hour of the tack coat application, at 2 gallons per 100 square feet (0.8 l/m<sup>2</sup>).
3. This application shall provide a minimum dry film thickness of 37 – 56 mils (0.9 – 1.4 mm).
4. Do not use with canvas or other closed weave cloths.

### BRUSH

Use a good brush (suitable for water-based paints), making strokes as long as possible over the surface. Apply with full brush and spread out evenly. Do not overwork.

### SPRAY

VAPOR-SAFE® Coating AF may be airless spray applied. For spray equipment information, please consult Airless Spray Recommendations or contact your airless spray equipment supplier. Average viscosity range: 60,000 – 90,000 cps. Corrosion resistant pumps and fittings are suggested.

## CLEAN UP

Use fresh water for cleaning brushes and equipment before product dries. Dry product may be removed with hot soapy water (with ammonia added) or strong solvents such as chlorinated solvent (non-flammable) or xylol (flammable).

## INSPECTION

Where available, it is suggested to use a National Insulation Association (NIA) certified (or other similarly certified) mechanical insulation inspector throughout the project to inspect and verify the materials and total insulation system have been installed correctly in accordance with the specifications.

## CUSTOMER SERVICE: (800) 832-9002

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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 twelve months from date of shipment to the original purchaser or as otherwise provided on the certificate of analysis.

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