



# VAPOR-SAFE<sup>®</sup> Coating 30-80

Product Data Sheet

## PROPERTIES

### COLOR:

White (Other colors available on special order.)

### APPLICATION CONSISTENCY:

Brush, airless spray.

### AVERAGE WEIGHT / U.S. GALLON (ASTM D 1475):

11.5 lbs. (1.38 kg/l)

### AVERAGE NON-VOLATILE (ASTM D 1644):

58% by volume (70% by weight)

### COVERAGE RANGE (FSTM 71):

(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 gallons per 100 square feet (1.6 l/m<sup>2</sup>) .064 in. wet thickness (1.6mm)

### DRYING TIME 73°F (23°C) 50% RH (ASTM D 1640):

Set to Touch: 4 Hours  
Dry Through: 24 Hours

### SERVICE TEMPERATURE LIMITS (FSTM 70):

(Temperature at coated surface)  
-20°F to 180°F (-29°C to 82°C)

### WATER VAPOR PERMEANCE:

ASTM E 96 Procedure B, 0.013 perms (0.009 metric perms) at 43 mils dry (1.09 mm).  
ASTM F 1249, 0.08 perms (0.05 metric perms) at 37 mils dry (0.94 mm). Tested at 100°F (38°C) and 90% RH.

### WET FLAMMABILITY (ASTM D 3278):

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

### SURFACE BURNING CHARACTERISTICS (ASTM E 84):

Flame Spread: 5  
Smoke Developed: 25  
Tested at coverage rate of 25 sq. ft./gal. (0.61 m<sup>2</sup>/l). 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.

### BS 476 Parts 6+7: Class "O"

VAPOR SAFE COATING meets NFPA 90A and 90B 25/50 requirements.

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## FOSTER<sup>®</sup> VAPOR-SAFE<sup>®</sup> COATING

FOSTER<sup>®</sup> VAPOR-SAFE<sup>®</sup> COATING is a water base, fire-resistant, flexible, high solids vapor barrier finish for most types of thermal insulation, including polystyrene foam. It may be used over dry concrete and finishing cement..

VAPOR SAFE COATING has the water resistance and low water vapor permeance normally found in only 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 COATING is formulated for both indoor and light duty commercial outdoor use. It is U.V. resistant. It has a mild latex "paint type" odor, and is designed for use over insulation on pipes, vessels, ducts, and equipment operating at cryogenic up to ambient temperatures.

VAPOR SAFE COATING 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" (3.2mm) wet film thickness.

VAPOR SAFE COATING meets the requirements of Military Specification MIL-C-19565C, Type II.

VAPOR SAFE COATING meets requirements for LEED IEQ 4.2 Low-Emitting Materials, Paints and Coatings. VOC: 33 g/l, less water and exempt solvents.

VAPOR SAFE COATING conforms with current requirements regarding use in meat and poultry processing areas under federal inspection. Letter of certification is available upon request.

VAPOR SAFE COATING 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.

To resist rain washoff, 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 Vapor-Safe Coating in the white color for use over polystyrene on outdoor installations. After long term outdoor exposure 30-80 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.

For heavy duty/industrial outdoor applications select Vapor-Safe Mastic 30-90.

Visit us on the web at [www.fosterproducts.com](http://www.fosterproducts.com)

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Specialty Construction Brands, Inc.

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

## MATERIAL PREPARATION

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

## APPLICATION - INDOOR AND LIGHT DUTY OUTDOOR

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

1. Apply tack coat of Foster Vapor-Safe Coating (color as selected) at 2 gallons per 100 square feet (0.8 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, 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 mils (0.9 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 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).

### DATA REPORTED FROM ASTM E84 FIRE TEST (TUNNEL TEST)

<b>COATING, GENERAL PURPOSE</b>	
<b>H.B. Fuller Company</b>	
	Surface Burning Characteristics
	1/4 inch (6.4 mm) Inorganic Reinforced Cement Board
Surface Flame Spread	5
Smoke Developed	25
Number of Coats	2
Rate per Coat (sq. ft. per gal.)	50



**CUSTOMER SERVICE: 800-231-9541**

IMPORTANT: Specialty Construction Brands, Inc. warrants that each of its products will be manufactured in accordance with the specifications in effect on the date of manufacture. 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 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.**