



## PROPERTIES

**COLOR:** White

**APPLICATION CONSISTENCY:** Brush or spray

**AVERAGE WEIGHT / U.S. GALLON (ASTM D 1475):**  
10.4 lbs. (1.25 kg/l)

**AVERAGE NON-VOLATILE (ASTM D 1644):**  
40% by volume (51% by weight)

**COVERAGE RANGE (FSTM 72):**  
(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.  
40-70 sq. ft. per gal. (1.0-1.7 m<sup>2</sup>/l) per coat  
0.040 in. to 0.023 in. wet film thickness  
(1.0 to 0.6 mm) per coat

**DRYING TIME 73°F (23°C) 50% RH (ASTM D 1640):**  
Set to Touch: 2 Hours  
Dry Through: 15 Hours

**SERVICE TEMPERATURE LIMITS (FSTM 70):**  
(Temperature at coated surface)  
0°F to 180°F (-18°C to 82°C)

**WATER VAPOR PERMEANCE (ASTM F 1249):**  
1.3 perms at 0.031 in. dry film thickness, (0.9 metric perms at 0.8 mm)

**WET FLAMMABILITY (ASTM D 3278):**  
No flash to boiling, 212°F (100°C)

**SURFACE BURNING CHARACTERISTICS (ASTM 84):**  
Flame Spread: 10  
Smoke Developed: 5  
Tested at coverage rate of 40 sq. ft./gal. (1.0 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.

**BS476, Part 7:** Class 1

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## FOSTER<sup>®</sup> SEALFAS<sup>®</sup> COATING



**Foster<sup>®</sup> Sealfas<sup>®</sup> Coating** is a white, fire resistive, tough, washable, abrasion-resistant indoor coating for thermal insulation. It is also used as a lagging and lap adhesive for canvas and glass lagging cloth. It has excellent brushing characteristics, which will result in better coverage, and more uniformly coated surfaces. It presents a neat white finish, and will not yellow or become discolored with age. The surface can be washed free of grease, oil, soot, and other dirt accumulation.

**Sealfas Coating** provides a protective finish for insulation on air conditioning ducts and cold water piping when applied in 2 coats with reinforcing fabric embedded between coats. When relative humidity exceeds 75% for continuous periods, or where the insulated piping or equipment contains chilled water, brine or refrigerant, additional vapor barrier protection is suggested.

**Sealfas Coating** is compatible with polystyrene and polyurethane foam insulations. It may be applied to the joint or edges of fibrous duct liner insulations to seal and prevent air erosion.

**Sealfas Coating** conforms with current requirements regarding use in meat and poultry processing areas under federal inspection. Letter of certification is available upon request.

**Sealfas Coating** meets the requirements of Military Specification MIL-A-3316C Class 1, Grade A, and is listed on the Q.P.L.

**Sealfas Coating** is approved by the U.S. Coast Guard under 164.012 and 164.112 (SOLAS/IMO approval).

**Sealfas Coating** is produced under the classification and follow-up service of Underwriter's Laboratories, Inc. and meets NFPA 90A and 90B 25/50 requirements.

**Sealfas 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.

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

# APPLICATION GUIDE FOR FOSTER® SEALFAS® COATING 30-36™

## MATERIAL PREPARATION

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

## APPLICATION

1. Apply a tack coat of Foster® Sealfas® Coating at 60-70 sq. ft per gal (1.5-1.7 m2/l).
2. Immediately imbed the selected lagging fabric into the wet coating. Smooth to avoid wrinkles and overlap seams by at least 2 inches (5 cm).
3. Immediately apply a finish coat at 60-70 sq. ft. per gal. (1.5-1.7 m2/l). The dry film thickness of this application will vary with the fabric selected.

For air conditioning ducts, increase the coverage rate to 40-50 sq. ft. per gal. (1.0-1.2 m2/l) for each coat.

## BRUSH

Use clean paint brushes (suitable for water-base paints). Apply with full brush and spread out evenly.

## SPRAY

Sealfas 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: 55,000 - 75,000 cps. Corrosion resistant pumps and fittings are suggested.

## TOP COATING

If Sealfas Coating 30-36 is to be top coated with anything other than an alkyd enamel conforming to DOD-E-24607 as specified in Mil-A-3316C, the user must confirm by his own tests that the products are compatible and that the final results are satisfactory.

## CLEAN-UP

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

### DATA REPRODUCED FROM UNDERWRITERS' LABORATORIES, INC. BUILDING MATERIALS DIRECTORY

<b>COATING, GENERAL PURPOSE</b>	R-3593
<b>H.B. Fuller Company</b>	
	Surface Burning Characteristics
	1/4 inch (6.4 mm) Inorganic Reinforced Cement Board
Surface Flame Spread	10
Smoke Developed	5
Number of Coats	1
Rate per Coat (sq. ft. per gal.)	40



## CUSTOMER SERVICE—800-231-9541 OR 800-338-2975

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.**



## PROPERTIES

**COLOR:**

White

**APPLICATION CONSISTENCY:**

Brush or spray

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

10.4 lbs. (1.25 kg/l)

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

40% by volume (51% by weight)

**COVERAGE RANGE (FSTM 72):**

(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.

40-70 sq. ft. per gal. (1.0-1.7 m<sup>2</sup>/l) per coat

0.040 in. to 0.023 in. wet film thickness

(1.0 to 0.6 mm) per coat

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

Set to Touch: 2 Hours

Dry Through: 15 Hours

**SERVICE TEMPERATURE LIMITS (FSTM 70):**

(Temperature at coated surface)

0°F to 180°F (-18°C to 82°C)

**WATER VAPOR PERMEANCE (ASTM F 1249):**

1.3 perms at 0.031 in. dry film thickness, (0.9 metric perms at 0.8 mm)

**WET FLAMMABILITY (ASTM D 3278):**

No flash to boiling, 212°F (100°C)

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

Flame Spread: 10

Smoke Developed: 5

Tested at coverage rate of 40 sq. ft./gal. (1.0 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.

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## FOSTER SEALFAS® COATING AF (Fungus Resistant)



**FOSTER SEALFAS Coating 30-36AF** is a specially formulated white, tough, washable, abrasion-resistant indoor coating for use over thermal insulation in areas where high humidity and elevated temperatures are a problem. It is designed to resist mold, fungus and mildew growth on its surface and protect the insulation system. It is also used as a lagging and a lap adhesive for canvas and glass lagging cloth where additional fungal resistance of the adhesive is required. It has excellent brushing characteristics, which will result in better coverage and more uniformly coated surfaces. It presents a neat white finish, and will not yellow or become discolored with age. The surface can be washed free of grease, oil, soot, and other dirt accumulation.

**SEALFAS Coating 30-36AF** provides a protective finish for insulation on air conditioning ducts and cold water piping when applied in 2 coats with 20x20 white glass cloth embedded between coats. When relative humidity exceeds 75% for continuous periods, an additional coat of vapor barrier protection such as Foster 30-80 or 60-95 is suggested.

**SEALFAS Coating 30-36AF** offers the same proven qualities of standard Foster SealFas Coating 30-36 with the added benefit of excellent fungus resistance.

**SEALFAS Coating 30-36AF** meets NFPA 90A and 90B 25/50 requirements and is compatible with polystyrene and polyurethane foam insulations.

**SEALFAS Coating 30-36AF** meets requirements for LEED IEQ 4.2 Low-Emitting Materials, Paints and Coatings. VOC: 17 g/l, less water and exempt solvents.

**SEALFAS Coating 30-36AF** 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.

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

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 SEALFAS COATING 30-36AF

## MATERIAL PREPARATION

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

## APPLICATION

1. Apply a tack coat of 30-36AF at 60-70 sq. ft per gal (1.5-1.7 m<sup>2</sup>/l).
2. Immediately imbed the selected lagging fabric into the wet coating. Smooth to avoid wrinkles and overlap seams by at least 2 inches (5 cm).
3. Immediately apply a finish coat at 60-70 sq. ft. per gal. (1.5-1.7 m<sup>2</sup>/l). The dry film thickness of this application will vary with the fabric selected.

For air conditioning ducts, increase the coverage rate to 40-50 sq. ft. per gal. (1.0-1.2 m<sup>2</sup>/l) for each coat.

## BRUSH

Use clean paint brushes (suitable for water-base paints). Apply with full brush and spread out evenly.

## SPRAY

30-36AF may be airless spray applied. For spray equipment information please consult Airless Spray Recommendations or contact your airless spray equipment supplier. Average viscosity range: 55,000 - 75,000 cps. Corrosion resistant pumps and fittings are suggested.

## CLEAN-UP

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

### DATA REPRODUCED FROM UNDERWRITERS' LABORATORIES, INC. BUILDING MATERIALS DIRECTORY

<b>COATING, GENERAL PURPOSE</b>	R-3593
<b>H.B. Fuller Company</b>	
	Surface Burning Characteristics 1/4 inch (6.4 mm) Inorganic Reinforced Cement Board
Surface Flame Spread	10
Smoke Developed	5
Number of Coats	1
Rate per Coat (sq. ft. per gal.)	40



## CUSTOMER SERVICE—800-231-9541 OR 800-338-2975

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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.**



# 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.

1105 South Frontenac Street • Aurora, IL 60504 • 800-231-9541 • fax 800-942-6856

# 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**

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





## 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.

### FUNGAL RESISTANCE (ASTM D 5590)

Rating = 0

**FOSTER 30-80AF Coating** meets NFPA 90A and 90B 25/50 requirements.

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

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

**Foster<sup>®</sup> Vapor-Safe<sup>®</sup> Coating AF** is a water base, fire-resistive, 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. It is designed to 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 Coating AF** 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 AF** 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 below ambient temperatures.

**Vapor-Safe Coating AF** 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 AF** meets requirements for LEED IEQ 4.2 Low-Emitting Materials, Paints and Coatings. VOC: 36 g/l, less water and exempt solvents.

**Vapor-Safe Coating AF** 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 coating in the white color for use over polystyrene on outdoor installations. After long term outdoor exposure 30-80AF 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.

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.

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# 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 - 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)

COATING, GENERAL PURPOSE	
H.B. Fuller Company	
	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 OR 800-338-2975

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## PROPERTIES

**COLOR:** Light Gray

**APPLICATION CONSISTENCY:**

Brush, Trowel, Caulking Gun, or Power Extrusion

**AVERAGE WEIGHT / U.S. GALLON (FSTM 3):**

11.6 lbs. (1.35 kg/l)

**AVERAGE NON-VOLATILE (FSTM 9A):**

55% by volume (69% by weight)

**COVERAGE RANGE (FSTM 72):**

Brush: 25-50 sq. ft./gal (.6-1.2 m<sup>2</sup>/l)

0.064 in. (1.6 mm) -0.032 in. (0.8 mm) wet film thickness

Caulking Gun: 125 lineal ft. per 10.5 fluid oz. tube, 1/8 in. bead

(38 m per .31 l tube, 3.2 mm bead.)

30 lineal ft. per 10.5 fluid oz. tube, 1/4 in. bead (9 m per .31 tube, 6.4 mm bead).

**SERVICE TEMPERATURE LIMITS (FSTM 165):**

20°F to 200°F (-7°C to 93°C)

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

Set to Touch: 1 hour

Dry Through: 24 hours

**WATER VAPOR PERMEANCE:**

ASTM D 3278 Procedure A, 0.45 perms (0.30 metric perms) at 35 mils (.9 mm) dry

**WET FLAMMABILITY (ASTM D 3278):**

No flash to boiling, over 210°F (99°C)

**SURFACE BURNING CHARACTERISTICS**

**(ASTM E 84):**

Flame Spread: 5

Smoke Developed: 0

Tested at coverage rate of 25 sq. ft./gal. (0.6 m<sup>2</sup>/l) in 2 in. (51

mm) wide 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.

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

**SAFETEE Duct Sealant** is produced under the classification and follow-up service of Underwriter's Laboratories, Inc. and meets NFPA 90A and 90B 25/50 requirements. It is approved for use in the City of Los Angeles, application number M-960081.

<sup>™</sup> Trademark of Specialty Construction Brands, Inc.

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

## FOSTER<sup>®</sup> SAFETEE<sup>™</sup> DUCT SEALANT



**Foster<sup>®</sup> Safetee<sup>™</sup> Duct Sealant** is a fire-resistive, fibrated water based, indoor/outdoor vapor barrier sealant for low, medium and high velocity heating and air conditioning ducts. It performs as a tough and flexible adhesive and sealant, forming a durable seal against air leakage when used with or without reinforcing tape or membrane. Mechanical fasteners of the type and number normally used for duct assemblies are required to provide rigidity to the duct system.

**Safetee Duct Sealant** has excellent weather resistance, low water vapor permeance and good water resistance, allowing it to be used outdoors and in high humidity environments. It is U.V. resistant. When dry, it may be painted with good quality water base paint.

**Safetee Duct Sealant** may be pressure tested within 16 hours dry time above 70°F (21°C) and below 60% RH. It quickly forms a strong bond to galvanized, aluminum or mild steel metal ducts. It has a mild odor when wet.

**Safetee Duct Sealant** will meet all SMACNA pressure classes up to 10" w.g. and SMACNA seal classes A, B, and C on ducts constructed to SMACNA standards. It has been tested up to 15" w.g. and passed with no sealant blow out.

**Safetee Duct Sealant** complies with current requirements regarding use in meat and poultry processing areas under federal inspection. Letter of compliance is available upon request.

**Safetee Duct Sealant** contains no asbestos, lead, mercury, or mercury compounds.

**UL 181B-M LISTED**

FOSTER SAFETEE DUCT SEALANT is listed by Underwriters Laboratories, Inc. under Standard 181B, Mastic Closure of UL 181 Flexible Air Ducts.

**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 12-15 hours drying time above 40°F (4°C), with a relative humidity of 50%. Higher humidity or lower temperatures may retard drying.

Always test foil and paper facings for acceptable adhesion.

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

If used between impermeable surfaces, drying time will be extended.

# APPLICATION GUIDE FOR FOSTER® SAFETEE™ DUCT SEALANT 32-17™ UL 181B-M

## MATERIAL PREPARATION

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

## APPLICATION: UL 181B MASTIC CLOSURE OF UL-181 FLEXIBLE AIR DUCTS:

Apply to clean, dry, oil-free surfaces by brush, trowel, or power extrusion. Brush out uniformly a 2" wide coat over the joint, at the nominal rate of 2 gal/100 sq ft (0.8 l/m<sup>2</sup>). Total coverage rate to be 45-55 ft<sup>2</sup>/gal. (1.1-1.4 m<sup>2</sup>/l) Allow the completed joint to dry at least 24 hours above 70°F (21°C) before pressure testing. High humidities (over 70%) and/or cooler temperatures may retard drying. Total wet film thickness to be 32 mils +/- 3 mils.

## OTHER SEALING APPLICATIONS - NOT UL-181:

Apply a continuous film of Foster® Safetee™ Duct Sealant over all areas of the indoor or outdoor duct system where air leakage may occur. A brush may be used to work the sealant into joints and remove excess. On spiral ducts apply at coat to the male end of the coupling prior to fitting the straight run of spiral duct over it. Brush excess Safetee Duct Sealant over the joint to complete the seal. Screw holes and flanges should also be sealed with a coat of Safetee Duct Sealant. It may be applied to the inside or the outside of the duct.

## POWER EXTRUSION

Safetee Duct Sealant may be applied using a wide variety of power (pressure) extrusion equipment suitable for use with waterbase sealants. It is a soft buttery gel with a typical viscosity range of 130,000 - 160,000 cps. Corrosion resistant pumps are fittings are suggested.

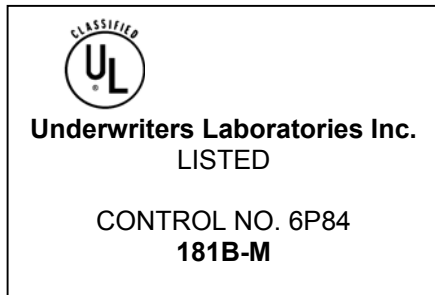
## TOP COATING

After it is completely dry, Safetee Duct Sealant may be top coated with good quality water base paint.

## CLEAN-UP

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

## DATA REPRODUCED FROM UNDERWRITERS' LABORATORIES, INC. BUILDING MATERIALS DIRECTORY



<b>ADHESIVES</b>	R-5661
<b>H.B. Fuller Company</b>	
	Surface Burning Characteristics Applied to 1/4 inch (6.4 mm) Inorganic Reinforced Cement Board
Surface Flame Spread	5
Smoke Developed	0
Number of Coats	1
Tested as applied in a 2 in. wide strip at a coverage of 25 sq. ft./gal.	



## CUSTOMER SERVICE—800-231-9541 OR 800-338-2975

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.

**40-20™****Fungicidal Protective Coating****Product Data Sheet****PROPERTIES****COLOR:**

White

**APPLICATION CONSISTENCY:**

Brush or airless spray

**AVERAGE WEIGHT/U.S. GALLON (ASTM D1475):**

11.9 lbs. (1.43 kg/l)

**AVERAGE NON-VOLATILE (ASTM D2369):**

58% by volume

**COVERAGE RANGE:**

Wet coverages shown are for smooth, non-porous surfaces. Porous or rough surfaces may require higher gallonage to obtain required thickness.

1.25 gal./100 sq. ft. (0.51 l/m<sup>2</sup>)

0.020 in. wet thickness (0.51 mm)

0.011 in. dry thickness (0.27 mm)

**DRYING TIME (ASTM D1640):**

Set to Touch: 4 hours

Dry Through: 16 hours

**WATER VAPOR PERMEANCE (ASTM F1249):**

Tested at 90% R.H. differential and 100°F (38°C) 6.0 perms at 0.011 in. (4.0 metric perms at 0.28mm)

**SERVICE TEMPERATURE LIMITS (FSTM 70):**

(Temperature at coated surface)

-20°F to 200°F (-29°C to 93°C)

**SAFETY:**

Wet Flammability (ASTM D3278)

No Flash to Boiling 210°F (99°C)

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

Flame Spread: 15

Smoke Developed: 5

Tested at a coverage rate of 80 square feet per gallon (1.96 m<sup>2</sup>/liter). Applied to inorganic reinforced cement board. The flame spread may vary at different product thicknesses and/or when applied over other surfaces.

Foster Fungicidal Protective Coating meets NFPA 90A and 90B 25/50 requirements

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

Foster, the Foster design, 40-20, 40-16 and 40-26 are trademarks of H. B. Fuller Construction Products Inc.

**ATTRIBUTES**

**Foster® 40-20™ Fungicidal Protective Coating** (40-20) is a polyacrylate copolymer emulsion specifically formulated for long-term fungicidal activity, with no loss of activity on aging. It is formulated to effectively prevent the spread of molds and odor-causing bacteria on its surface. It provides a tough, elastic, decorative finish that allows for movement without splitting and creating lodging places for bacteria.

Foster 40-20 provides a cost effective decorative finish resistant to many industrial chemicals, together with long-lasting protection. It can be used on walls, ceilings, pipes, interior and exterior surfaces of HVAC duct systems, and wherever effective controls are essential.

Foster 40-20 guards against the re-growth and spread of odor-causing bacteria and molds on the surface of the coated HVAC system or its treated components only. As a result, the building occupants may enjoy a work space free of the odor problems often associated with contaminated HVAC duct systems.

Foster 40-20 meets requirements for LEED® EQ Credit 4.2, low-emitting materials: paints and coatings. VOC: 36 g/l, less water and exempt solvents.

**LIMITATIONS:**

Protect from freezing. Do not apply near food stuffs in unventilated areas. Always ensure adequate ventilation. Do not store or apply over 100°F (38°C) or below 40°F (4.4°C). Water-based products may corrode carbon steel spray equipment. Corrosion resistant pumps and fittings are suggested.

**DO NOT DILUTE.**

U.S. Patent No. 5,314,719  
EPA Registration No. 63836-1  
EPA Est. No. 63836-TX-001  
For professional use only

FPDS40-20 R0413

**H.B. Fuller Construction Products Inc.**

1105 South Frontenac Street • Aurora, IL 60504 • 800-832-9002 • fax 800-952-2368

**APPLICATION GUIDE  
FOR  
FOSTER® 40-20™ Fungicidal Protective Coating**

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons.

**MATERIAL PREPARATION:** DO NOT THIN. Keep container closed when not in use. Do not apply outdoors in damp or rainy weather.

**SURFACE PREPARATION:**

**Unpainted brick, plaster, and cement based surfaces:** Apply only to clean, dry surfaces free of all dirt, grease, or impurities. On mold infested surfaces, aggressively scrape the surface, then wire brush to produce a firm, sound substrate. Wash the intended surface with a detergent and water solution following the instructions for its use, then rinse and allow to dry completely before proceeding. 40-20 may be applied directly without the need for primer. For improved adhesion to unpainted brick, plaster and cement based surfaces, prime with **Foster® 40-26™ Waterbase Primer** and fill gaps with **Foster® 40-16™ Block Filler**.

**Painted Surfaces:** Wire brush painted surfaces removing all flaking, loose, or chalking material. Sand all glossy surfaces (alkyl, oil, epoxy based coatings, etc.) to roughen entire area. Wash the intended surface with a detergent and water solution following the manufacturer's instructions for its use, then rinse and allow to dry thoroughly.

**Metal Surfaces:** Remove any dust, grease, oil, or materials. Abrade all surfaces to remove all surface rust. Wash the intended surface with detergent and water, then rinse and allow to dry thoroughly. Where metal will be exposed or potential exists for the coating to be peeled from the surface, prime metal surfaces with Foster Waterbase Primer.

**Wooden Surfaces (unpainted):** Remove all dirt, grease, oil, or materials. Remove all loose substrate materials, unnatural protrusions, splintered materials, etc. to a sound surface. Wash with detergent and water following the manufacturer's directions, then rinse and allow to dry thoroughly. 40-20 may be applied directly without the need for primer. On exposed surfaces where staining or discoloration of the coating would be objectionable, prime with Foster Waterbase Primer.

**HVAC Systems:** Follow use directions provided in the supplemental document "[Application of 40-20 Fungicidal Protective Coating in HVAC Sytems](#)" available at [www.fosterproducts.com](http://www.fosterproducts.com). Always follow industry accepted cleaning procedures. Galvanized surfaces need to be vacuumed or washed clean of all accumulated mold, dust and loose particles. Ensure that all interior surfaces are thoroughly dry before applying **Foster® 40-20™**. All metal surfaces must be primed with Foster Waterbase Primer before application of 40-20. Lined air ducts must be lightly vacuum cleaned to remove all mold, dust, and loose particles, being careful not to tear or loosen the liner.

**APPLICATION:** Always ensure adequate ventilation. HVAC systems must be under negative air pressure during and after application to allow for exhausting of odors and rapid drying of the coating. Apply 40-20 to all surfaces by brush, roller or airless spray at a rate of approximately 1.25 gal. per 100 square feet. Always ensure adequate ventilation. Brushing or rolling will require two coats applied at 90° to each other. Under normal circumstances a spray application can be completed in one coat, but for extremely porous or irregular surfaces, a second coat may be required. Ensure that the finished surface is smooth and homogeneous. For airless spray application, use an electric 2800 psi minimum pump with a 0.021-0.025 fluid tip.

**NOTE:** Continue to circulate fresh dry air throughout the area during the application and for as long after the application as is possible. Exhaust circulated air outside the building or occupied space. If air must be exhausted inside the building circulate air through an air scrubbing filtration system with odor absorbing medium such as a charcoal medium. This circulation and filtration helps to reduce the dry time of the coating and reduce latex type odors that could possibly migrate from the application area. Be sure exhausted air is odorless before venting into occupied spaces.

**MAINTENANCE:** Wash down periodically with mild detergent and water. Where severely contaminated, scrub clean using steam cleaning where permissible. Normal cleaning procedures must be maintained in HVAC systems to removed accumulated airborne particles. If coating becomes damaged clean surface and re-apply coating.

**CLEAN-UP:** Use fresh water to clean brushes and equipment before product dries. Dry product may be removed with chlorinated solvents (non-flammable) or xylol (flammable).

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Prolonged skin contact may cause irritation. Acute overexposure to vapors may cause dizziness, headache, nausea, and unconsciousness. Since emptied containers may contain product residue, follow label warning even after container is empty. Consult material safety data sheet for more information.

**USER SAFETY INSTRUCTIONS**

Users must wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users must wear long-sleeved shirts, long pants, shoes, socks, chemical resistant gloves and apron when handling this product. User must remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users must remove personnel protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible wash thoroughly. When applying with a sprayer, applicator must wear a respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

**FIRST AID; IF SWALLOWED:** Call a Poison Control Center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not give anything to an unconscious person. Do not induce vomiting unless told by a Poison Control Center doctor. In case of emergency call 1-888-853-1758. Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment. **IF ON SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for treatment advice.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a Poison Control Center or doctor for treatment advice.

**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 requirements herein are made without guarantee or representation as to results. We require 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. Keep out of reach of children.  
Consult Material Safety Data Sheet and container label for further information.**



## PROPERTIES

### COLOR:

60-95 White

60-96 Gray

Other colors available on special order.

### APPLICATION CONSISTENCY:

Airless spray or brush

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

9.6 to 10.0 lbs. (1.15 to 1.20 kg/l)

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

33% by volume (46% by weight)

### COVERAGE RANGE (FSTM 72):

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

Dry Thickness: 0.032 inch (0.8 mm)

Equivalent Wet Coverage: 0.096 inch (2.4 mm)

6 gal./100 sq. ft. (2.4 l/m<sup>2</sup>)

### DRYING TIME (ASTM D 1640):

Set to Touch: 3-4 hours

Dry Through: 24 hours

### SERVICE TEMPERATURE LIMITS (FSTM 70):

(Temperature at coated surface)

-50°F to 220°F (-46°C to 104°C)

### WATER VAPOR PERMEANCE:

ASTM E 96, Method E, 0.025 perms

(0.016 metric perms) at 51 mils dry (1.3mm)

ASTM E-96 Procedure A, 0.018 perms (0.012 metric perms) at 26 mils (0.66mm) dry

ASTM F 1249, 0.05 perms (0.033 metric perms) at 30 mils dry (0.8mm). Tested at 100°F (38°C) and 90% RH.

### WET FLAMMABILITY (ASTM D 3278):

Flash point 110°F (43°C)

### SURFACE BURNING CHARACTERISTICS

#### (ASTM E 84):

Flame Spread: 10

Smoke Developed: 15

Tested at coverage rate of 25 sq. ft./gal. (0.61 m<sup>2</sup>/l). Applied to 1/4 inch (6.4mm) inorganic reinforced cement board. The flame spread may vary at different product thicknesses and/or when applied over other surfaces.

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

## FOSTER MONOLAR® COATING



**FOSTER MONOLAR Coating** is a tough flexible fire-resistive elastomeric finish for protection of outdoor thermal insulation. It contains DuPont Hypalon\* rubber. It is an excellent vapor barrier for low temperature insulation on tanks, pipework, vessels, ductwork, and fittings.

**MONOLAR Coating** provides outstanding weather barrier protection, showing good color retention, excellent chemical resistance, and durability. It has excellent resistance to UV and sunlight.

**MONOLAR Coating** provides outstanding weather barrier and vapor barrier protection for sprayed polyurethane foam in outdoor locations. It is a one-component, high film strength product, usually applied in two coats with standard airless spray equipment. It sprays easily and cleanly with a minimum of cobwebbing.

**MONOLAR Coating** is an ideal finish for flexible cellular insulation tubing and sheets. Apply by brush in two coats.

**MONOLAR Coating** is produced under the classification and follow-up service of Underwriter's Laboratories, Inc.

**MONOLAR Coating** meets NFPA 90A and 90B 25/50 requirements.

**MONOLAR Coating** contains no asbestos, lead, mercury, or mercury compounds.

### LIMITATIONS

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

For best results, select Elastolar 95-44 for insulation joint sealing under Monolar coating.

Always test plastic materials for compatibility when using a solvent base product.

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

Make certain this product is completely dry and the area free from solvent odor if food is involved.

Select Monolar Mastic 60-90 (white) or 60-91 (gray) for trowel or glove application.

™ Trademark of Specialty Construction Brands, Inc.

\*Trademark of E.I. Dupont Company

# APPLICATION GUIDE FOR FOSTER MONOLAR® COATING 60-95/60-96

## MATERIAL PREPARATION

Stir well. DO NOT THIN. Apply only to clean dry surfaces. Keep container closed when not in use to prevent solvent evaporation.

## APPLICATION

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

### Normal Service:

Apply a tack coat of MONOLAR Coating at a thickness of 1/32 inch (0.8mm). This is equivalent to 2 gal./100 sq. ft. (0.8 l/m<sup>2</sup>). Embed Foster MAST-A-FAB or Chil-Glas® #10 white membrane into wet tack coat. Smooth membrane to avoid wrinkles and overlap all seams at least 2 inches (5 cm). Apply a finish coat of MONOLAR Coating at a minimum thickness of 1/16 inch (1.6mm). This is equivalent to 4 gal./100 sq. ft. (1.6 l/m<sup>2</sup>). This finish coat shall be applied no later than 2 hours after the tack coat and shall completely cover membrane. This application shall provide a minimum dry film thickness of 32 mils (0.8mm).

### Severe and Cryogenic Service:

After the first two coats have set, 24 hours minimum or until dry, apply an additional coat of MONOLAR Coating at a thickness of 3/64 inch (1.2 mm). This is equivalent to 3 gal./100 sq. ft. (1.2 l/m<sup>2</sup>). This additional application shall provide a minimum dry film thickness of 48 mils (1.2mm).

### Application - Sprayed Polyurethane Foam

Sprayed Polyurethane Foam may be primed with Foster 40-26 Waterbase Primer prior to the application of MONOLAR Coating to improve adhesion. Many Sprayed Polyurethane Foam systems are different; end user should always perform an adhesion test to ensure that the adhesion of MONOLAR Coating and primer system with the foam insulation is sufficient.

### Spray:

MONOLAR Coating may be airless spray applied. For spray equipment information, please consult Foster's Airless Spray Recommendations or contact your airless spray equipment supplier. Average viscosity range: 10,000-30,000 cps.

### Brush:

Use a good brush, making strokes as long as possible over the surface. Multiple coats may be needed to achieve the minimum dry film thickness. Do not overwork. Best appearance may be achieved by smoothing wet MONOLAR Coating with a clean brush dampened with detergent (not soap) foam, being careful not to pick up any MONOLAR on the brush.

## CLEAN-UP

Use xylol (flammable) or chlorinated solvent (non-flammable) for cleaning equipment. (Dried MONOLAR Coating is extremely difficult to remove.)

## DATA REPRODUCED FROM UNDERWRITERS' LABORATORIES, INC. BUILDING MATERIALS DIRECTORY

<b>COATING, GENERAL PURPOSE</b>	R3593
<b>H.B. Fuller Company</b>	
	Surface Burning Characteristics
	1/4 inch (6.4 mm) Inorganic
Surface	Reinforced Cement Board
Flame Spread	10
Smoke Developed	15
Number of Coats	1
Rate Per Coat (sq. ft. per gal.)	25



## CUSTOMER SERVICE—800-231-9541 OR 800-338-2975

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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 industrial use only. Keep out of reach of children.

**Consult Material Safety Data Sheet and container label for further information.**





## PROPERTIES

**COLOR:** Green

**APPLICATION CONSISTENCY:**

Spray, brush or roller.

**AVERAGE WEIGHT / U.S. GALLON (FSTM 3):**

6.2 lbs. (0.74 kg/l)

**AVERAGE NON-VOLATILE (FSTM 9A):**

16% by volume (22% by weight)

**COVERAGE RANGE (FSTM 72):**

(Subject to type of surface and nature of material being bonded.) 200 to 400 sq. ft. per gallon (4.9 to 9.8 m<sup>2</sup>/l)  
0.008 in. to 0.004 in. wet film thickness (0.2 to 0.1 mm)

**BOND TIME RANGE (FSTM 66):**

0 to 15 minutes

**SERVICE TEMPERATURE LIMITS (FSTM 70):**

(Temperature at coated surface)  
-20°F to 200°F (-29°C to 93°C)

**WET FLAMMABILITY (ASTM D 93):**

Flash point -7°F (-22°C)

**SURFACE BURNING CHARACTERISTICS (ASTM 84):**

Flame Spread: 10

Smoke Developed: 25

Tested at coverage rate of 200 sq. ft./gal. (4.9 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.

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

## FOSTER S.M. ADHESIVE



**FOSTER S.M. ADHESIVE** is a low cost, quick-setting synthetic elastomer adhesive for use with fibrous glass insulation (up to 3 lbs./cu.ft.) duct wrap and acoustical linings for air handling ducts.

**S.M. ADHESIVE** is designed for use in applications where fibrous glass insulation is bonded to the interior or exterior of sheet metal air-conditioning ducts.

**S.M. ADHESIVE** meets ASTM C916, Type IV (ASC-A-7001-A, Type IV) and NFPA 90A and 90B 25/50 requirements.

**S.M. ADHESIVE** is produced under the classification and follow-up service of Underwriter's Laboratories, Inc.

**S.M. ADHESIVE** contains no asbestos, lead, mercury, or mercury compounds.

**LIMITATIONS**

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

Always test plastic materials for compatibility when using solvent base products.

Make certain this product is completely dry and the area free from solvent odor if food is involved.

Not suggested for sealing vapor barrier jackets.

Allow to dry to a solvent-free condition before installing weld pins.

Overhead applications may require mechanical fasteners.



# APPLICATION GUIDE FOR FOSTER S.M. ADHESIVE 81-10

## MATERIAL PREPARATION

DO NOT THIN. Stir well, but do not use sticks or boards, which would splinter or otherwise contaminate the product.

No need to prime aluminum or galvanized metal. Apply only to clean, dry surfaces. Keep container closed when not in use to prevent solvent evaporation.

## APPLICATION

### Brush:

Use a clean paintbrush. Apply uniformly to metal surface at 200-400 sq. ft./gal. (4.9-9.8 m<sup>2</sup>/l). Press insulation into place, making sure complete contact is made with applied adhesive. Bond may be made within 0 to 15 minutes.

### Spray:

May be spray applied with conventional air atomizing equipment or airless spray equipment. For spray equipment information, please consult Spray Recommendations or contact your spray equipment supplier. Average viscosity range: 200-500 cps.

## CLEAN-UP

Use solvents such as chlorinated solvent (non-flammable) or mineral spirits (flammable) for cleaning brushes and equipment.

### DATA REPRODUCED FROM UNDERWRITERS' LABORATORIES, INC. BUILDING MATERIALS DIRECTORY

<b>ADHESIVES</b>	R-5661
<b>H.B. Fuller Company</b>	
	Surface Burning Characteristics Applied to 1/4 inch (6.4 mm) Inorganic Reinforced Cement Board
Surface Flame Spread	10
Smoke Developed	25
Tested as applied at a coverage of 200 sq. ft./gal.	



## CUSTOMER SERVICE—800-231-9541 OR 800-338-2975

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

### PROPERTIES

**COLOR:**  
Off White

**APPLICATION CONSISTENCY:**  
Brush

**AVERAGE WEIGHT / U.S. GALLON (ASTM D 1475):**  
10.8 lbs. (1.29 kg/l)

**AVERAGE NON-VOLATILE (ASTM D 2369):**  
42.5% by volume (42% by weight)

**COVERAGE RANGE (FSTM 72):**  
(Subject to type of surface and nature of material being bonded.)

**For insulation attachment:**  
200 sq. ft./gal. (4.9 m<sup>2</sup>/l)  
0.008 in. wet film thickness (0.2mm)

**For lap sealing:**  
75 sq. ft./gal. (1.8 m<sup>2</sup>/l)  
0.021 in. wet film thickness (0.5mm)  
Averages 500 lineal feet (152 m) of 2 in. (5 cm) wide band of adhesive.

**BOND TIME RANGE (FSTM 66):**  
**For insulation attachment:**

0 to 15 minutes  
**For lap sealing:**  
2 to 10 minutes

**SERVICE TEMPERATURE LIMITS (FSTM 70):**  
(Temperature at coated surface)  
-20°F to 180°F (-29°C to 82°C)

**WET FLAMMABILITY (ASTM D 93):**  
No flash to boiling, 98°F (37°C)

**SURFACE BURNING CHARACTERISTICS (ASTM E 84):**  
Flame Spread: 15  
Smoke Developed: 0  
Tested at coverage rate of 200 sq. ft./gal. (4.9 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.

<sup>™</sup> Trademark of Specialty Construction Brands, Inc.

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

### FOSTER<sup>®</sup> SPARK-FAS<sup>®</sup> ADHESIVE



**Foster<sup>®</sup> Spark-Fas<sup>®</sup> Adhesive** is a quick-setting, non-flammable, fire-resistive, synthetic elastomer adhesive used to adhere duct wrap, fibrous glass or mineral wool insulations (up to 6 lbs. density) to galvanized steel and aluminum air conditioning or hot air ducts, where a fire-resistive dry film is required. Non-flammable chlorinated solvents eliminate explosion and fire hazards during application.

**Spark-Fas Adhesive** will adhere insulation to wood and concrete. In this application the coverage may not be as great as shown at left.

**Spark-Fas Adhesive** gives superior service when it is used as a contact adhesive to cement the laps of aluminum foil, FSK, ASJ, and FRK facings.

**Spark-Fas Adhesive** meets ASTM C 916, Type I (ASC-A-7001, Type I) requirements.

**Spark-Fas Adhesive** meets MIL-A-3316C, Class 2 grade A test requirements.

**Spark-Fas Adhesive** meets NFPA 90A and 90B 25/50 requirements.

**Spark-Fas Adhesive** is produced under the classification and follow-up service of Underwriter's Laboratories, Inc.

**Spark-Fas Adhesive** contains no asbestos, lead, mercury, or mercury compounds.

#### LIMITATIONS

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

Always test plastic and painted materials for compatibility when using a solvent base product. Do not use with flexible PVC.

Make certain this product is completely dry and the area free from solvent odor if food is involved.

# APPLICATION GUIDE FOR FOSTER® SPARK-FAS® ADHESIVE 85-20™

## MATERIAL PREPARATION

Stir well, DO NOT THIN. No need to prime aluminum or galvanized metal. Apply only to clean, dry, dust-free surfaces. Keep container closed when not in use to prevent solvent evaporation. Do not use pumps or equipment that have aluminum parts in contact with the adhesive.

## APPLICATION

### Insulation Attachment:

The metal surface shall be coated by brush with Foster® Spark-Fas® Adhesive at a coverage of 200 sq. ft./gal. (4.9 m<sup>2</sup>/l). Allow an open time of 0 to 15 minutes to develop full tack. Install insulation, apply pressure to assure complete and uniform contact to the metal surface.

The above application suggestions do not preclude the use of additional mechanical fastening as recommended by insulation manufacturer or required by design engineer.

### Lap, Butt Strip, and Pin Patch Sealing:

All longitudinal and butt joint laps of facing shall overlap a minimum of two inches (5 cm). Apply a brush coat of Foster Spark-Fas Adhesive at the rate of 75 sq. ft./gal. (1.8 m<sup>2</sup>/l). Allow an open time of 2 to 10 minutes to develop full tack.

Alternate - Apply a brush coat of Foster Spark-Fas Adhesive at the rate of 150 sq. ft./gal. (3.7 m<sup>2</sup>/l) to each surface. Allow an open time of 2 to 10 minutes to become tacky.


Bond laps by applying uniform pressure, smoothing out to avoid wrinkles and gaps.

## BRUSH

Use a good brush (suitable for chlorinated solvents), making strokes as long as possible. Do not overwork.

## CLEAN-UP

Use a chlorinated solvent (non-flammable) or xylol (flammable) to clean brushes and equipment.

	ADHESIVES	
	SURFACE BURNING CHARACTERISTICS	
Applied to Inorganic Reinforced Cement Board		
Flame Spread:		15
Smoke Developed:		0
Tested as applied at a coverage rate of 200 ft <sup>2</sup> /gal		
312U		



**CUSTOMER SERVICE—800-231-9541 OR 800-338-2975**

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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.

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Consult Material Safety Data Sheet and container label for further information.**

### PROPERTIES

**COLOR:**  
Cream

**APPLICATION CONSISTENCY:**  
Spray, brush or roller

**AVERAGE WEIGHT / U.S. GALLON (ASTM D 1875):**  
9.7 lbs. (1.16 kg/l)

**AVERAGE NON-VOLATILE (ASTM D 2369):**  
54% by volume (63% by weight)

**COVERAGE RANGE (FSTM 72):**  
(Subject to type of surface and nature of material to be bonded.)

**Spray Application:**  
300-600 sq. ft./gal.  
(7.4 to 14.7 m<sup>2</sup>/l)  
Roller and Brush:  
150-600 sq. ft./gal. (3.7-14.7 m<sup>2</sup>/l)

**BONDING TIME RANGE (FSTM 66):**  
(Depending upon temperature and humidity)  
Contact Bond: 15 minutes to 2 hours  
Single Surface Wet Bond: 0-15 minutes

**SERVICE TEMPERATURE LIMITS:**  
-20°F to 200°F (-29°C to 98°C)

**WET FLAMMABILITY (ASTM D 3278):**  
No flash to boiling 212°F (100°C)

**SURFACE BURNING CHARACTERISTICS (ASTM E 84):**  
Flame Spread: 0  
Smoke Developed: 0  
Tested at coverage rate of 200 sq. ft./gal. (4.9 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.

**QUICK-TACK ADHESIVE** is produced under the classification and follow-up service of Underwriter's Laboratories, Inc.

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

### FOSTER QUICK-TACK™ ADHESIVE



**FOSTER QUICK-TACK** Adhesive is a high tack, rapid setting water-base adhesive designed for bonding low density (up to 3#/cu. ft.) duct liner, duct wrap and fibrous glass insulations to painted or unpainted steel, galvanized or aluminum surfaces.

**QUICK-TACK** Adhesive is a solvent free, very low VOC synthetic elastomer emulsion. It is non-flammable when wet and fire-resistive when dry. It can be applied to either the metal or the insulation. The dry film stays moisture resistant.

**QUICK-TACK** Adhesive can also be applied as a contact bond adhesive being applied to both surfaces in areas where water entrapment may be a problem such as polystyrene to metal.

**QUICK-TACK** Adhesive is ideal for bonding fibrous glass insulation to concrete, block and other masonry surfaces in building construction.

**QUICK-TACK** Adhesive meets ASTM C916 Type II (ASC-A-7001A, Type II) and NFPA-90A and 90B 25/50 requirements.

**QUICK-TACK** meets requirements for LEED IEQ 4.1 Low-Emitting Materials, Adhesives and Sealants. VOC: 0 g/l, less water and exempt solvents.

**QUICK-TACK** Adhesive contains no asbestos, lead or mercury compounds.

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

Avoid repositioning the insulation after initial placement.

Not suggested for use with roll coating machines.

Always test plastic foam insulation for warpage when using any water base adhesive.

Overhead applications may require mechanical fasteners.

# APPLICATION GUIDE FOR FOSTER QUICK-TACK™ ADHESIVE 85-60

## MATERIAL PREPARATION

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

## WET BOND APPLICATION

Apply QUICK-TACK Adhesive to the metal surface uniformly at 300-600 ft.<sup>2</sup>/gal. (7.4-14.7 m<sup>2</sup>/l). While still wet, press the insulation into place, making sure that complete contact is made with applied adhesive.

## CONTACT BOND APPLICATION

Apply QUICK-TACK Adhesive to the metal surface at 350-450 ft.<sup>2</sup>/gal (8.6-11.0 m<sup>2</sup>/l). Coat the insulation surface at 120-180 ft.<sup>2</sup>/gal (2.9-4.4 m<sup>2</sup>/l). Allow the adhesive to tack fully and allow most of the water to escape, 20-40 minutes depending on temperature and humidity. Position the two mating surfaces together and apply pressure to assure intimate contact. A hand roller is suitable for this purpose.

## BRUSH/ROLLER


Use clean equipment suitable for use with water base paints.

## SPRAY

QUICK-TACK Adhesive can be applied using a variety of conventional air atomizing and airless spray equipment. For spray equipment information, please consult Airless Spray Recommendations or contact your spray equipment supplier. Average Viscosity Range: 8,000-15,000 cps. Before using for the first time, existing spray systems must be completely cleaned and free of the old adhesive and solvents. Corrosion resistant pumps and fittings are suggested.

## CLEAN-UP

When wet use warm (not hot) soapy water. When dry use mineral spirits (flammable) or chlorinated solvent (non-flammable).

	ADHESIVES	
	SURFACE BURNING CHARACTERISTICS	
Applied to Inorganic Reinforced Cement Board		
Flame Spread:	0	
Smoke Developed:	0	
Tested as applied at a coverage rate of 200 ft <sup>2</sup> /gal		
Flash point of finished adhesive (closed cup) no flash to boiling.		
312U		



**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 six months from date of shipment to the original purchaser.

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Consult Material Safety Data Sheet and container label for further information.**

## MATERIAL SAFETY DATA SHEET

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REVISION DATE: 09-22-2009

SUPERSEDES: 12-28-2007

### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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#### COMPANY INFORMATION

H.B. Fuller Construction Products Inc.  
1105 S. Frontenac Street  
Aurora, IL 60504  
Phone: 1-800-552-6225

Medical Emergency Phone Number (24 Hours): 1-888-853-1758  
Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

#### PRODUCT INFORMATION

PRODUCT NUMBER: FD9544C  
PRODUCT NAME: FOSTER 95-44 C  
PRODUCT DESCRIPTION: Sealant  
PRODUCT IDENTIFIER: 802436PM

### SECTION 2: HAZARDS IDENTIFICATION

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#### EMERGENCY OVERVIEW

PHYSICAL STATE: Solid  
COLOR: Aluminum  
ODOR: Solvent

Combustible  
Moderate eye irritant.  
Can cause skin irritation.  
Moderate respiratory tract irritant.  
Harmful if swallowed.  
Cancer hazard.

#### POTENTIAL HEALTH EFFECTS BY ROUTE OF ENTRY

EYE: Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

SKIN: Can cause skin irritation.

Component(s) may be absorbed through intact skin, but it is unlikely that harmful effects will occur unless contact is prolonged, repeated, and extensive.

INHALATION: Can cause moderate respiratory irritation. Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.

Inhalation of high concentrations may result in central nervous system (CNS) effects such as dizziness, weakness, fatigue, nausea, headache, and lack of coordination. Overexposure to crystalline silica may cause silicosis.

This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

INGESTION: Ingestion is not an anticipated route of exposure. Harmful if swallowed. Irritating to mouth, throat, and stomach.

#### LONG-TERM (CHRONIC) HEALTH EFFECTS

REPRODUCTIVE: Contains a substance that is a probable reproductive hazard based on human studies.

TARGET ORGAN(S): Kidneys Central nervous system Lungs Blood Liver

#### REGULATED CARCINOGEN STATUS:

Unless noted below, this product does not contain regulated levels of NTP, IARC, ACGIH, or OSHA listed carcinogens.

Crystalline silica

## MATERIAL SAFETY DATA SHEET

Ethylbenzene

EXISTING HEALTH CONDITIONS AFFECTED BY EXPOSURE: Kidney disease; Lung disease; Blood disorders (like anemia); Liver disease

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	PERCENT
Stoddard solvent	8052-41-3	10 - 30
Mica	12001-26-2	10 - 30
Aromatic petroleum distillate	64742-95-6	5 - 10
Trimethylbenzene, 1,2,4-	95-63-6	5 - 10
Trimethylbenzene, 1,3,5	108-67-8	1 - 5
Xylene	1330-20-7	1 - 5
Silica gel	63231-67-4	0.1 - 1
Crystalline silica	14808-60-7	0.1 - 1
Cumene	98-82-8	0.1 - 1
Ethylbenzene	100-41-4	0.1 - 1

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

### SECTION 4: FIRST AID MEASURES

IF IN EYES: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

IF ON SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

IF VAPORS INHALED: Remove to fresh air. Restore breathing, if necessary. Call a physician if symptoms persist.

IF SWALLOWED: Do not induce vomiting. Seek medical attention immediately. Drink two glasses of water or milk to dilute. Do not give anything by mouth to an unconscious person.

### SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT:	43C; 109F TCC
AUTOIGNITION TEMPERATURE:	Not established
LOWER EXPLOSIVE LIMIT (% in air):	Not established
UPPER EXPLOSIVE LIMIT (% in air):	Not established
EXTINGUISHING MEDIA:	Use water spray, foam, dry chemical or carbon dioxide.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Vapors are heavier than air and can travel to a source of ignition and flash back.
SPECIAL FIRE FIGHTING INSTRUCTIONS:	Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.
HAZARDOUS COMBUSTION PRODUCTS:	Carbon dioxide, Carbon monoxide

### SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION: Exposure to the spilled material may be irritating or harmful. Follow



## MATERIAL SAFETY DATA SHEET

personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation.

**CLEAN-UP:** Scrape up and place in disposal container.  
Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

### SECTION 7: HANDLING AND STORAGE

**Handling:** Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area.  
Keep away from heat, sparks and flame.  
Wash thoroughly after handling.  
Keep container closed.  
Emptied container retains vapor and product residue.  
Observe all labeled precautions until container is cleaned.  
Drums of this material should be grounded when pouring.  
**DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER.**

**Storage:** Store in a cool, dry, ventilated location. Keep away from heat and flame. Keep container closed.

Consult the Technical Data Sheet for specific storage instructions.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**EYE PROTECTION:** Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.

**SKIN PROTECTION:** Avoid skin contact by wearing chemically resistant gloves. Skin absorption may potentially contribute to the overall exposure to this material. Appropriate measures should be taken to prevent absorption so that the TLV is not invalidated.

**GLOVES:** Nitrile

**RESPIRATORY PROTECTION:** Respiratory protection may be required to avoid overexposure when handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. NIOSH approved air purifying respirator with organic vapor cartridge. Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

**VENTILATION:** Use local exhaust ventilation or other engineering controls to minimize exposures.

#### EXPOSURE LIMITS:

Chemical Name	ACGIH EXPOSURE LIMITS	OSHA PEL
Stoddard solvent	100 ppm TWA	500 ppm TWA; 2900 mg/m <sup>3</sup> TWA
Mica	3 mg/m <sup>3</sup> TWA (respirable fraction)	Not established

**MATERIAL SAFETY DATA SHEET**

Aromatic petroleum distillate	Not established	Not established
Trimethylbenzene, 1,2,4-	Not established	Not established
Trimethylbenzene, 1,3,5	Not established	Not established
Xylene	100 ppm TWA 150 ppm STEL	100 ppm TWA; 435 mg/m3 TWA
Silica gel	Not established	Not established
Crystalline silica	0.025 mg/m3 TWA (respirable fraction)	((250)/(%SiO2 + 5) mppcf TWA (respirable)); ((10)/(%SiO2 + 2) mg/m3 TWA (respirable)); ((30)/(%SiO2 + 2) mg/m3 TWA (total dust))
Cumene	50 ppm TWA	50 ppm TWA; 245 mg/m3 TWA  Skin absorption may potentially contribute to the overall exposure to this material.
Ethylbenzene	100 ppm TWA 125 ppm STEL	100 ppm TWA; 435 mg/m3 TWA

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE:	Solid
COLOR:	Aluminum
ODOR:	Solvent
ODOR THRESHOLD:	Not established
WEIGHT PER GALLON (lbs.):	9.6
SPECIFIC GRAVITY:	1.15
SOLIDS (% by weight):	71.0
	Not applicable
pH:	Not established
FLASH POINT:	43C; 109F TCC
BOILING POINT (deg. C):	Not established
FREEZING/MELTING POINT (deg. C):	Not established
VAPOR PRESSURE (mm Hg):	Not established
VAPOR DENSITY:	Not established
EVAPORATION RATE:	Not established
OCTANOL/WATER COEFFICIENT:	Not established

**MATERIAL SAFETY DATA SHEET**

VOC, weight percent Not determined  
VOC, EPA Method 24, less water and exempt solvents 357 g/liter of material  
(theoretically determined)

**SECTION 10: STABILITY AND REACTIVITY**

STABILITY: Stable under normal conditions.  
CHEMICAL INCOMPATIBILITY: Strong oxidizing agents  
HAZARDOUS POLYMERIZATION: Will not occur.  
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

**SECTION 11: TOXICOLOGICAL INFORMATION**

COMPONENT	LD50/LC50
Stoddard solvent	Not established
Mica	Not established
Aromatic petroleum distillate	Oral LD50 Rat = 8400 mg/kg
Trimethylbenzene, 1,2,4-	Oral LD50 Rat = 5 g/kg Inhalation LC50 Rat = 18000 mg/cu m/4H
Trimethylbenzene, 1,3,5	Inhalation LC50 Rat = 24000 mg/cu m/4H
Xylene	Oral LD50 Rat = 4300 mg/kg Inhalation LC50 Rat = 5000 ppm/4H Dermal LD50 Rat = 1700 mg/kg
Silica gel	Not established
Crystalline silica	Not established
Cumene	Oral LD50 Rat = 1400 mg/kg Inhalation LC50 Mouse = 17500 mg/cu m/4H Dermal LD50 Rabbit = 12.3 ml/kg
Ethylbenzene	Oral LD50 Rat = 3500 mg/kg Dermal LD50 Rabbit = 17.8 ml/kg

TOXICOLOGY SUMMARY: No additional health information available.

**SECTION 12: ECOLOGICAL INFORMATION**

OVERVIEW: No ecological information available

**SECTION 13: DISPOSAL CONSIDERATIONS**

This product meets the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. It is ignitable waste class D001. Disposal via incineration is recommended. Consult your state, local, or provincial authorities for more restrictive requirements.

LAND DISPOSAL RESTRICTIONS: Xylenes (o-, m-, p- isomers) Ethyl benzene

**SECTION 14: TRANSPORTATION INFORMATION**

Consult Bill of Lading for transportation information.

DOT: NOT REGULATED  
IATA: NOT REGULATED

## MATERIAL SAFETY DATA SHEET

### SECTION 15: REGULATORY INFORMATION

#### INVENTORY STATUS

U.S. EPA TSCA:	This product is in compliance with the Toxic Substances Control Act's Inventory requirements.
CANADIAN CEPA DSL:	The components of this product are included on the DSL or are exempt from DSL requirements.
EUROPEAN EINECS:	As a result of the introduction of REACH into Europe, this product cannot be imported into Europe unless the REACH requirements are met.
AUSTRALIA AICS:	This product is in compliance with the Australian Inventory of Chemical Substances requirements.
KOREAN TCCL:	This product is in compliance with the Korean Existing Chemicals List requirements.
PHILIPPINES:	This product is in compliance with the Philippine Inventory of Chemicals and Chemical Substances requirements.

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at 651-236-5858 (USA) or 450-655-1306 x227 (Canada) to request an export review.

#### FEDERAL REPORTING

##### EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name	CAS#	%
1,2,4-Trimethylbenzene	95-63-6	5 - 10
Xylene (mixed isomers)	1330-20-7	1 - 5
Cumene	98-82-8	0.1 - 1
ethylbenzene	100-41-4	0.1 - 1

WHMIS STATUS: Unless listed below, this product is not controlled under the Canadian Workplace Hazardous Materials Information System.

B3

D2B D2A

#### STATE REPORTING

This MSDS is not prepared for distribution in California.

### SECTION 16: ADDITIONAL INFORMATION

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 2 FLAMMABILITY -- 2 REACTIVITY -- 0

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Prepared by: The Global Regulatory Department

Phone: 651-236-5842

## **MATERIAL SAFETY DATA SHEET**

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The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B.Fuller Construction Products, Inc. from its suppliers, and because H.B.Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B.Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B.Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B.Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.

## PROPERTIES

**COLOR:**

Aluminum

**APPLICATION CONSISTENCY:**

Trowel, Caulking Gun or Power Extrusion Equipment

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

9.3 lbs. (1.1 kg/l)

**AVERAGE NON-VOLATILE (ASTM C 461):**

52 to 58% by volume (65% by weight)

**COVERAGE RANGE (FSTM 72):****Trowel:**

12 to 25 sq. ft./gal. (0.29 to 0.61 m<sup>2</sup>/l)

1/8 to 1/16 in. (3.2 to 1.6 mm) wet film thickness.

**Caulking Gun:**

125 lineal ft. per 10.5 fluid oz. tube,

1/8 in. bead. (38 m per .31 l tube, 3.2 mm bead)

30 lineal ft. per 10.5 fluid oz. tube, 1/4 in. bead

(9 m per .31 l tube, 6.4 mm bead).

**DRYING TIME (ASTM D 15):**

Touch: 1/2 hour

Through: 72 hours

**SERVICE TEMPERATURE LIMITS (FSTM 70):**

(Temperature at coated surface)

Joint Sealant - Urethane Foam

Minus 150°F to 200°F (-101°C to 93°C)

Joint Sealant - Cellular Glass

Minus 100°F to 250°F (-73°C to 121°C)

Flashing Compound

(Temperature at Flashed Surface)

Minus 40°F to 250°F (-40°C to 121°C)

**WET FLAMMABILITY (ASTM D 3278)**

Flash Point: 105°F (41°C)

**SURFACE BURNING CHARACTERISTICS (ASTM E 84)**

Flame Spread: 15

Smoke Developed: 0

Tested at coverage rate of 25 sq. ft./gal. (0.61 m<sup>2</sup>/l) in 2 in. (5 cm) 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.

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## FOSTER ELASTOLAR® SEALANT

**FOSTER ELASTOLAR Sealant** is a fire resistive, flexible butyl elastomer based vapor barrier sealant. It is designed for sealing joints in insulation (except polystyrene foam), metal, and masonry wherever maintenance of a water-tight and air-tight seal is required. It can be used as a joint sealant in low velocity duct air-conditioning systems. It is ideal for sealing the laps of aluminum jacketing to prevent the entrance of moisture.

**ELASTOLAR Sealant** is a fast drying vapor barrier sealant that can be top coated with most solvent-thinned, flexible, light colored coatings without danger of bleed through. It is weather resistant and may be used outdoors without top coating.

**ELASTOLAR Sealant** is the preferred product for flashing projections and terminations where a complete moisture and vapor seal is required.

**ELASTOLAR Sealant** meets NFPA 90A and 90B 25/50 requirements.

**WATER VAPOR PERMEANCE:**

ASTM F-1249: 0.014 perm (0.0092 metric perm) at 0.094 in. (2.38 mm) dry film thickness. Tested at 100°F (38°C) and 90% RH

The water vapor transmission through 1 in. of impermeable insulation in 12 x 18 in. blocks with 1/8 in. joints of ELASTOLAR Sealant is too small to measure.

**ELASTOLAR Sealant** contains no asbestos, lead, mercury, or mercury compounds.

**ELASTOLAR Sealant** may meet requirements for LEED IEQ 4.1 Low-Emitting Materials, Adhesives and Sealants for some applications where the use falls under the 'Other' category. Refer to LEED guides for more information. VOC: 384 g/l, less water (336 g/l, less water cartridge grade)

**LIMITATIONS**

Store and apply between 40°F and 100°F (4°C and 38°C). Always test plastic materials for compatibility when using a solvent base product.

When used in exposed locations without top-coating, this product may darken or discolor due to surface dirt pick-up. This will not affect its performance.

Make certain this product is completely dry and the area is free from solvent odor if food is involved.

Select Foster 30-45 for joint sealing polystyrene foam insulations.

# APPLICATION GUIDE FOR FOSTER ELASTOLAR® SEALANT 95-44

## MATERIAL PREPARATION

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

## APPLICATION

Apply by trowel, putty knife, caulking gun or power extrusion. When sealing insulation joints apply ELASTOLAR Sealant to the edges of abutting sections at 1/16 in. to 1/8 in. (1.6 mm to 3.2 mm) wet film thickness and press mating surfaces together firmly to squeeze out air bubbles and to obtain complete contact. Strike off excess sealant on surface with a trowel. When flashing, do not trowel out to feather edge, but maintain a minimum of 1/8 in. (3.2 mm) wet film thickness throughout entire area of use. Use membrane as specified. For best application, the material temperature should be 60°F (16°C) or higher.

Note: Pressurized piping made from copper and aluminum alloys may be susceptible to under insulation corrosion when moisture is present and in direct contact with many materials. When used as a joint sealant direct contact between pressurized pipes made from these metals and the sealant should be prevented.

## POWER EXTRUSION

ELASTOLAR Sealant may be applied using a wide variety of power (pressure) extrusion equipment suitable for use with solvent base sealants. Typical viscosity range: 1.5 -2.0 million cps.

## CLEAN-UP

Use solvent such as chlorinated solvent (non-flammable) or mineral spirits (flammable) for cleaning tools and equipment.

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

<b>ADHESIVES</b>	
<b>H.B. Fuller Company</b>	
	Surface Burning Characteristics
	1/4 inch (6.4 mm) Inorganic Reinforced Cement Board
Surface Flame Spread	15
Smoke Developed	0
Number of Coats	1
Tested as applied in a 2 in. wide strip at a coverage of 25 sq. ft. per gal.	



**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.**





## PROPERTIES

### COLOR

Cream

### APPLICATION CONSISTENCY

Brush, Gob or Notched trowel

### AVERAGE WEIGHTS/U.S. GALLON

10.15 lbs. (1.22 kg/liter)

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

65.0% by weight

### COVERAGE (FSTM 72)

(Subject to type of surface and nature of material to be bonded.)

50-200 sq. ft./gal. (1/32" – 1/16" Notched Trowel)  
Depending on porosity and smoothness of the intended surface.

### BONDING TIME RANGE (FSTM 66)

(Depending upon temperature, humidity, and application rate)

0-30 minutes single surface

### SERVICE TEMPERATURE LIMITS (FSTM 70)

(Temperature at coated surface)

-20°F (-29°C) to 200°F (60°C)

Applied at 50-100 sq. ft./gal.

With cellular plastic insulations (polystyrene foam etc.) use the manufacturer's maximum service temperature.

### WET FLAMMABILITY (ASTM D 3278)

No flash to boiling over

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## FOSTER MULTI-PURPOSE ADHESIVE

**FOSTER MULTI-PURPOSE ADHESIVE** is a high tack, rapid-setting waterbase adhesive for bonding polystyrene foam insulations (extruded and beadboard), fibrous glass insulation and PIR/polyurethane boardstock insulations to concrete, masonry, gypsum board, and other porous substrates. It is also ideal for bonding fibrous insulations to painted or unpainted steel, galvanized or aluminum surfaces.

**FOSTER MULTI-PURPOSE ADHESIVE** is a synthetic resin emulsion. The dry film remains flexible and resists moisture and humidity. It is non-flammable in the wet state. The adhesive has a smooth, mastic consistency and can be applied to either the insulation or the substrate. It goes on easily and cleanly using a wide variety of application equipment and methods.

**FOSTER MULTI-PURPOSE ADHESIVE** may also be used to adhere polystyrene and PIR/polyurethane insulation to impermeable surfaces when used as a contact adhesive.

**MULTI-PURPOSE** Adhesive meets requirements for LEED IEQ 4.1 Low-Emitting Materials, Adhesives and Sealants. VOC: 0 g/l, less water and exempt solvents.

**MULTI-PURPOSE** Adhesive contains no asbestos, lead, mercury compounds, per Federal Standards.

### LIMITATIONS

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

Always test plastic foam insulation for warpage when using a waterbase adhesive.

Overhead applications may require mechanical fasteners.

On rough or uneven surfaces, a thicker application of adhesive may be required in order to assure contact between insulation and substrate. Very rough surfaces should be back-plastered.

When used as a contact adhesive between impermeable materials the adhesive must be allowed to dry on both surfaces before mating to avoid entrapment of water.

# **APPLICATION GUIDE FOR FOSTER MULTI-PURPOSE ADHESIVE 97-15**

## **MATERIAL PREPARATION**

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

## **APPLICATION**

Apply Foster Multi-Purpose Adhesive to the selected surface uniformly. While still wet, press the insulation into place making sure that complete contact is made with applied adhesive.

When applying between two impermeable surfaces apply the adhesive to both surfaces or apply to one surface, press insulation in place and then remove the freshly pressed board. Allow sufficient time for the water to evaporate from the adhesive on both surfaces. Then reinstall and again firmly press the insulation board into the desired position.

## **BRUSH**

Use clean equipment suitable for waterbase paints. Do not overwork.

## **NOTCHED TROWEL**

Use a 1/32" to 1/16" notched trowel depending on porosity and smoothness of the surface. Trowel with firm pressure leaving ridges of adhesive. Before the adhesive skins over, press insulation firmly into place to obtain complete contact.

## **AIRLESS SPRAY**

Adhesive may be applied with conventional airless spray equipment. An inductor plate and ram are suggested to maintain adhesive flow into pump. Apply using a 0.017" to 0.025" tip depending on desired application rate.

## **CLEAN-UP**

To clean up, use warm, soapy water if still wet. When dry, use mineral spirits (flammable) or chlorinated solvent (non-flammable).

## **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 six months from date of shipment to the original purchaser.

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Consult Material Safety Data Sheet and container label for further information.**