



## 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

### SHORE HARDNESS (ASTM D 2240):

Type A: 80

### WATER VAPOR PERMEANCE:

ASTM E 96 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 as applied in two 2 in. wide strips spaced 8 in. on center at a coverage rate of 25.0 sq ft/gal. 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.

**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.**

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

**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** meets requirements for LEED IEQ 4.1 Low-Emitting Materials, Adhesives and Sealants. VOC: 45 g/l, less water and exempt solvents.

### LIMITATIONS

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

To resist rain 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.

<sup>™</sup> Trademark of H.B. Fuller Construction Products Inc.

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

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

# 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 a 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 and 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).

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| <br><b>LISTED</b> | UL 181B-M  |
|  | 6P84   |
|  | ALSO CLASSIFIED for<br>Surface Burning Characteristics   |
|  | Applied to Inorganic Reinforced Cement Board   |
| Flame Spread:  | 5  |
| Smoke Developed:   | 0  |
|  | Tested as applied in two 2 in. wide strips spaced 8 in. on center at a<br>coverage rate of 25.0 sq ft/gal. |
|  | 312U   |

## CUSTOMER SERVICE: 800-832-9002

IMPORTANT: H.B. Fuller Construction Products 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.**