

### PROPERTIES

**COLOR:**

Light Gray

**APPLICATION CONSISTENCY:**

Brush, trowel, caulking gun or power extrusion

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

11.6 lbs. (1.35 kg/l)

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

55% by volume (69% by weight)

**COVERAGE RANGE:**

Brush: 25 – 50 sq. ft./gal. (0.6 – 1.2 m<sup>2</sup>/l) 0.064 in. – 0.032 in.  
(1.6 mm – 0.8 mm) wet film thickness

Caulking Gun: 125 linear ft. per 10.5 fluid oz. tube, 1/8 in. bead (38 m per 0.31 liter tube, 3.2 mm bead)

30 linear ft. per 10.5 fluid oz. tube, 1/4 in. bead (9 m per 0.31 liter tube, 6.4 mm bead)

**SERVICE TEMPERATURE LIMITS:**

20°F to 200°F (-7°C to 93°C)

**DRYING TIME 73°F (23°C) 50% RH:**

Set to Touch: 1 hour

Dry Through: 24 hours

**SHORE HARDNESS (ASTM D2240):**

Type A: 80

**WATER VAPOR PERMEANCE (TYPICAL AVERAGE):**

ASTM E96, PROCEDURE A: 0.45 perms (0.30 metric perms) at 35 mils (0.9 mm) dry thickness

**WET FLAMMABILITY:**

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

**SURFACE BURNING CHARACTERISTICS (ASTM E84):**

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 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.**

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### FOSTER® SAFETEE™ DUCT SEALANT



**FOSTER® SAFETEE™ 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-based 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 32-17** meets the requirements of:

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

VOC Content: 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. A pitch of at least 1/2 inch per foot (4 cm/m) is required.

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

# APPLICATION GUIDE FOR FOSTER® 32-17 SAFETEE™ DUCT SEALANT 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. Uniformly brush out 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 sq. ft./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 water-based 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-based 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).

	UL 181B-M 6P84
	ALSO CLASSIFIED for 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 coverage rate of 25 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 twelve months from date of shipment to the original purchaser or as otherwise provided on the certificate of analysis.

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