



32-17 Safetee Duct Sealant

Colour

Light grey

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 m²/l)
0.064 in. (1.6 mm) – 0.032 in. (0.8 mm) wet film thickness
Caulking gun: 125 linear ft. per 10.5 fluid oz.
tube, 1/8 in. bead (38 m per .31 l tube, 3.2 mm bead)
30 linear ft. per 10.5 fluid oz. tube, ¼ 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)

Water Vapour 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 E84)

Flame Spread: 5
Smoke Developed: 0
Tested at coverage rate of 25 sq. ft./gal. (0.6 m²/l) in 2 in.
(51 mm) wide strip. Applied to
¼ 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.

Foster Safetee Duct Sealant is a fire resistive, fibrated water based, indoor/ outdoor vapour 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 vapour permeance and good water resistance, allowing it to be used outdoor and in high humidity environments. It is U.V. resistant.

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, aluminium or mild steel metal ducts. It has a mild odour when wet.

Safetee Duct Sealant complies with current U.S. 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.

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 wash-off, 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 last ¼ inch per foot
(2 cm/m) is required.

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



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/m²). Total coverage rate to be 45-55 ft²/gal. (1.1-1.4 m²/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 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 32-17 over the joint to complete the seal. Screw holes and flanges should also be sealed with a coat of 32-17.

Power Extrusion

Safetee Duct Sealant may be applied using a wide variety of power (pressure) extrusion equipment suitable for use with waterbased 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.

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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Building Materials Directory
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Surface Burning Characteristics

Applied to ¼ inch (6.4 mm) inorganic Reinforced Cement Board

Surface Flame Spread	5
Smoke Developed	0
Number of Coats	1

For industrial use only.

This data sheet is based on specifications, data and test results available to us at the time of publication.

In the course of time changes herein may (have) take(n) place. No guarantee as to completeness, accuracy or results is either expressed or implied. The suitability to an intended use is the responsibility of the user. As material-choice, method of application and site conditions are beyond our control, we accept no liability for direct or consequential damages; our only obligation being to resupply ex our stores any material that is proved to be defective within the published* shelf life.

* If not applicable, within 6 months from date of supply.