SAFETEE® Duct Sealant
32-17
Product Data Sheet

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 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.
bread (38 m per .31 l tube, 3.2 mm bead.)
30 linear 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):
20ºF to 200ºF (-7ºC to 93ºC)

DRYING TIME 73ºF (23ºC) 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 210ºF (99ºC)

SURFACE BURNING CHARACTERISTICS
(ASM 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.

SAFE TEE Duct Sealant contains no asbestos, lead, mercury, or
mercury compounds.

Visit us on the web at www.fosterproducts.com

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.

SAFE TEE 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.

SAFE TEE Duct Sealant may be pressure tested within 16 hours dry
time above 70ºF (21ºC) 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.

SAFE TEE 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.

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

SAFE TEE 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 40ºF (4ºC) and 100ºF (38ºC), protect from
freezing until dry.

To resist rain washoff, allow at least 12-15 hours drying time above
40ºF (4ºC), 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.

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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/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 70ºF (21ºC) 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).

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.

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