



32-18

Product Data Sheet

PROPERTIES

COLOR:

Gray

APPLICATION CONSISTENCY:

Brush, trowel, glove or power extrusion.
(Spray grade – Special Order)

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

11.6 pounds (1.39 kg/l)

AVERAGE NON-VOLATILE (ASTM D2369):

54% by volume (67% by weight)

COVERAGE RANGE:

Brush: 50 – 80 sq. ft./gal. (1.2 – 2.0 m²/l) 0.020 – 0.032 in. (0.5 – 0.8 mm) wet film thickness

DRYING TIME 73°F (23°C) 50% RH:

Set to Touch: 1 hour

Dry Through: 16 hours

SERVICE TEMPERATURE LIMITS:

20°F to 200°F (-7°C to 93°C)

FUNGAL GROWTH RESISTANCE (ASTM G21):

Pass

WET FLAMMABILITY:

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

SURFACE BURNING CHARACTERISTICS (ASTM E84):

Flame Spread: 0

Smoke Developed: 0

Tested at coverage rate of 45 sq. ft. per gal. (1.1 m²/l) in a 2 inch (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.

FOSTER AIR-FAS™ DUCT SEALANT



AIR-FAS™ DUCT SEALANT is a UL-181 B-M listed, economical, water-based, non-fibrated sealant for use on low, medium and high velocity ducts to form a flexible, yet durable seal against air leakage. It is supplied in a special thixotropic consistency that allows easy application by brush, glove, trowel or power extrusion.

AIR-FAS™ DUCT SEALANT may be pressure tested after 16 – 24 hours dry time above 70°F (21°C). It quickly forms a strong bond to clean galvanized, aluminum and mild steel metal ducts.

AIR-FAS™ DUCT SEALANT can also be used to seal ASJ, FRK and FSK jackets and board facings at joints and laps and for sealing flexible air ducts to rigid connectors.

AIR-FAS™ 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.

AIR-FAS™ DUCT SEALANT 32-18 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: 13 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 16 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.

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

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H.B. Fuller Construction Products Inc.

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APPLICATION GUIDE FOR FOSTER® AIR-FAS™ DUCT SEALANT 32-18 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 80 sq. ft./gal. (2.0 m²/l). Allow the completed joint to dry at least 48 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 20 mils (0.5 mm).

OTHER SEALING APPLICATIONS – NOT UL 181:

Apply a continuous film of AIR-FAS™ DUCT SEALANT over all areas of the 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 of duct sealant to the male end of the coupling prior to fitting the straight run of spiral duct over it. Brush excess sealant over the joint to complete the seal. Screw holes and flanges should also be sealed with a coat of duct sealant. It may be applied to the inside or the outside of the duct.

POWER EXTRUSION:

AIR-FAS™ 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 90,000 – 140,000 cps. Corrosion resistant pumps and fittings are suggested.

SPRAY APPLICATION:

AIR-FAS DUCT SEALANT can be supplied in a special spray grade consistency allowing for spray application with commercial grade airless spray units suitable for high viscosity coatings without diluting or need for a ram plate. The spray grade is lower viscosity for easy pumping but has excellent body to prevent running or dripping once applied. Graco Ultra Max 795 or larger sprayers with a 225 or 235 spray tip have been found to work well. Suggested 3/8" hose up to 100 feet. Typical airless spray accessories including pole gun extensions and swivel tips may be used to assist in spray applications. A 30 to 60 mesh inline filter is suggested at the pump with no filter required in the gun.


Keep intake lines sealed or in water for short term storage to avoid drying of product in pump. Spray unit must be thoroughly flushed and pump removed and flushed for full cleaning before extended storage. Do not allow sealant to dry in sprayer.

TOP COATING

After it is completely dry, AIR-FAS™ 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 solvents such as chlorinated solvent (non-flammable) or xylol (flammable).

	UL 181B-M 6P84 ALSO CLASSIFIED for Surface Burning Characteristics
LISTED	
Applied to Inorganic Reinforced Cement Board	
Flame Spread:	0
Smoke Developed:	0
Tested as applied in two 2 in. wide strips spaced 8 in. on center, at a coverage rate of 45 sq. ft. per gal.	
312U	

CUSTOMER SERVICE: 833-849-3700

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.**