



Mastics, Coatings, Adhesives, Sealants

CP-147 HVAC Duct Sealant Product Data Sheet

WATER-BASED DUCT SEALANT

DESCRIPTION

CP-147 is a UL 181B-M listed, economical, water-based, non-fibrated sealant. It is supplied in a special thixotropic consistency that allows easy application by brush, glove, trowel or power extrusion.

USES

CP-147 is used to seal all metal joints in high, medium and low pressure air handling ductwork systems. Application by trowel, brush or extrusion readily fills the joints of round, rectangular, rigid or flexible ductwork, diffusers and mixing boxes. It can also be used to seal ASJ, FRK and FSK jackets and board facings at joints and laps.

ADVANTAGES

- Water-based for personal & environmental safety.
- Application is quick & easy for economical installation.
- Dries firmly & forms a strong, resilient seal.
- Creates a permanently flexible seal (even when system cycles between high and low temperatures).
- Long service life.
- Quick & efficient cleanup of tools & metal with hot water when sealant is still wet.

LIMITATIONS

- Store and apply between 40°F (4°C) and 100°F (38°C); protect from freezing.
- To resist rain wash off, 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.
- Outdoor horizontal surfaces must always drain completely. A pitch of at least 1/4 inch per foot (2 cm/m) is required.
- If used between two impermeable surfaces, drying time will be extended.

CERTIFIED

- 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

- VOC Content: 13 g/l, less water and exempt solvents
- Collaborative for High Performance Schools EQ 7.1
- CP-147 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.
- CP-147 meets 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.

COLOR

Gray

WET WEIGHT (ASTM D1475)

11.6 lbs (1.4 kg/l)

AVERAGE NON-VOLATILE (ASTM D2369)

67% by weight

SERVICE TEMPERATURE RANGE

Temperature to which dry film is subjected.
20°F to 200°F (-7°C to 93°C)

DRYING TIME

Temperature, humidity and film thickness will affect drying time.

To Touch: 1 Hour

Through: 16 – 24 Hours

COVERAGE

Varies with substrate.

Brush: 50 – 80 sq. ft./gal. (1.2 – 2.0 m²/l)

FUNGAL GROWTH RESISTANCE (ASTM G21)

Pass

CLEAN UP

Warm, soapy water (wet) or xylol (dry)



UL 181B-M
6P84
ALSO CLASSIFIED for
Surface Burning Characteristics

Applied to Inorganic Reinforced Cement Board

Flame Spread: 0

Smoke Developed: 0

Tested as applied in a two in. wide strips spaced 8 in. on center, at a rate of 45 sq. ft. per gal.

312U



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Suggested Specifications

CP-147 DUCT SEALANT

MATERIAL PREPARATION

All surfaces where sealant will be applied must be clean, dry and free of oil or grease prior to application. DO NOT THIN. Keep container closed when not in use.

Application Guide and Suggested Procedures

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 UL181:

Apply a continuous film of 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.

TOP COATING:

After it is completely dry, CP-147 may be top coated with good-quality, water-based paint.

POWER EXTRUSION:

CP-147 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.

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.**