



Mastics, Coatings, Adhesives, Sealants

CHIL-FLEX™ CP-146 Duct Sealant

INDOOR / OUTDOOR WATER-BASED DUCT SEALANT

DESCRIPTION

CP-146 is a water-based duct sealant developed for use in all heating, ventilating and air-conditioning metal ductwork systems. It is easily applied, and its metallic gray color blends well with ductwork.

USES

CP-146 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.

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).
- Resistant to fire, oxidation, cracking, moisture & water.
- Long service life.
- Quick & efficient clean up 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 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.
- 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: 24 g/l, less water and exempt solvents
- Collaborative for High Performance Schools EQ 7.1
- CP-146 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-146 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



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COLOR

Gray

AVERAGE WET WEIGHT (ASTM D1475)

11.7 lbs (1.4 kg/l)

AVERAGE NON-VOLATILE (ASTM D2369)

70% 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: 2 hours

Through: 16 – 24 hours

COVERAGE

Varies with substrate.

40 sq. ft./U.S. gal. (1.13 m²/liter)

103 linear ft. per 10.5 ounce cartridge for 1/8" (3.2 mm) bead

SHORE HARDNESS (ASTM D2240)

Type A: 72

FUNGAL GROWTH RESISTANCE (ASTM G21)

Rating = 0, no fungal growth on surface

CLEAN UP

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



UL 181B-M Listed
CONTROL NO. 6P84

CHILDERS CHIL-FLEX™ SEALANT is listed by Underwriters Laboratories, Inc. under Standard 181B, Mastic Closure of UL 181 Flexible Air Ducts.

SURFACE BURNING CHARACTERISTICS (ASTM E84):



Underwriter's Laboratories Inc.®
CLASSIFIED
Adhesive
Surface Burning Characteristics

Surface:	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./gal.

312U

H.B. Fuller Construction Products Inc.

Customer Service
800-832-9002

1105 South Frontenac Street
Aurora, IL 60504

Fax
800-952-2368

Application Guide and Suggested Procedures

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

UL 181B MASTIC CLOSURE OF UL 181 FLEXIBLE AIR DUCTS:

Apply to clean, dry, oil-free surfaces by brush, trowel, or power extrusion. Brush CP-146 out uniformly in 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 sq. ft./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 CP-146 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 of CP-146 to the male end of the coupling prior to fitting the straight run of spiral duct over it. Brush excess CP-146 over the joint to complete the seal. Screw holes and flanges should also be sealed with a coat of CP-146. They may be applied to the inside or the outside of the duct.

TOP COATING:

After it is completely dry, CP-146 may be top coated with good quality water-based paint.

POWER EXTRUSION:

CP-146 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 – 180,000 cps. Corrosion resistant pumps and fittings are suggested.

TOP COATING

After it is completely dry, CP-146 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).

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.**