



Mastics, Coatings, Adhesives, Sealants

# CP-190 HVAC Duct Sealant and Closure Mastic

Product Data Sheet

## INDOOR / OUTDOOR WATER-BASED DUCT SEALANT AND MASTIC

### DESCRIPTION

CP-190 is a fire-resistive, fibrated, water-based duct sealant and mastic for use on heating, ventilating and air conditioning duct systems. It performs as a tough and flexible adhesive and sealant, forming a durable seal against air leakage when used with reinforcing membrane. Mechanical fasteners of the type and number normally used for duct assemblies are required to provide rigidity to the duct system.

### USES

CP-190 is used to seal all high, medium and low-pressure HVAC systems, including metal and flexible ductwork and fiberglass duct board in both indoor and outdoor systems. Application by trowel or brush readily fills the joints of round or rectangular ductwork, diffusers and mixing boxes. CP-190 is also ideal for vapor sealing ASJ, FRK and FSK jackets and board facings at joints, laps and over staple and weld pin punctures.

### 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%.
- Always test foil and paper facings for acceptable adhesion.
- Outdoor horizontal surfaces must always drain completely. A pitch of at least ¼ inch per foot (2 cm/m) is required.
- Mechanical fasteners of the type and number normally used for duct assemblies are required to provide rigidity to the duct system.

### 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: 26 g/l, less water and exempt solvents
- Collaborative for High Performance Schools EQ 7.1
- CP-190 is produced under the classification and follow-up service of Underwriter’s Laboratories, Inc.
- Meets NFPA 90A and 90B 25/50 requirements
- Meets all SMACNA pressure classes up to 10” w.g. and SMACNA seal classes A, B and C on ducts constructed to SMACNA standards



### COLOR

- Gray CP-190-1
- Warm White CP-190

### AVERAGE WET WEIGHT (ASTM D1475)

11.7 lbs. (1.40 kg/l)

### AVERAGE NON-VOLATILE (ASTM D2369)

69% by weight (56% by volume)

### 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 Hours

### COVERAGE

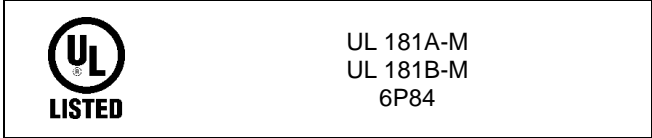
Brush: 45 – 55 sq. ft./gal. (1.10 – 1.35 m<sup>2</sup>/l) 0.036 – 0.029 in. (0.9 – 0.7 mm) wet film thickness

### CLEAN UP

Warm, soapy water

### SURFACE BURNING CHARACTERISTICS (ASTM E84)

Flame Spread: 0  
Smoke Developed: 0  
Tested at coverage rate of 45 sq. ft. per gal. (1.1 m<sup>2</sup>/l) in a 3 in. (7.6 cm) strip. Applied to rigid fiberglass duct board. Type 475, covered with foil/scrim/kraft paper facing material.



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**Application Guide and Suggested Procedures**

**MATERIAL PREPARATION**

DO NOT THIN. Apply only to clean, dry, oil-free surfaces. Keep container closed when not in use.

**APPLICATION**

**UL 181A MASTIC CLOSURE OF UL 181 RIGID FIBERGLASS AIR DUCTS:**

Apply to the surface by brush, trowel or power extrusion. Uniformly brush out at 3” – 4” wide tack coat over the stapled and smoothed joint at the nominal rate of 1 gal./100 sq. ft. (0.4 l/m<sup>2</sup>). Embed the reinforcing membrane into the tack coat, taking care that all of the mesh is filled. Pull the membrane taut and apply a second coat at the nominal rate of 1 gal./100 sq. ft. (0.4 l/m<sup>2</sup>). 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 (mastic plus scrim plus mastic) wet film thickness to be 32 mils. Fiberglass scrim to be 5 mils thick, 20x10 plain weave weighing 1.75 oz/yd<sup>2</sup> (59 g/m<sup>2</sup>).

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

Apply to clean, dry, oil-free surface by brush, trowel or power extrusion. Uniformly brush out at 2” wide coat over the joint at the nominal rate of 2 gal./100 sq. ft. (0.8 l/m<sup>2</sup>). Total coverage rate to be 45 – 55 sq. ft./gal (1.10 – 1.35 m<sup>2</sup>/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 29 – 35 mils (0.7 – 0.9 mm).

**OTHER DUCT CLOSURE AND SEALING APPLICATIONS – NOT UL 181 LISTED:**

For other applications or on different types of low velocity metal duct construction, the use of a reinforcing membrane is optional (reinforcing membrane is suggested in medium and high pressure applications). Apply at a rate of 45 – 55 sq. ft./gal. (1.10 – 1.35 m<sup>2</sup>/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. For best results, do not exceed 1/4” (6.4 mm) wet film thickness. CP-190 sealant has excellent weather, water and U.V. resistance, allowing it to be used outdoors and in high humidity environments.

LIMITATIONS: Always test foil and paper facings for acceptable adhesion before using. Outdoor horizontal surfaces must always drain completely. A pitch of at least 1/4” per foot (2 cm/m) is required. To resist rain washoff, 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.

**POWER EXTRUSION**

CP-190 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 – 150,000 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 solvents such as chlorinated solvent (non-flammable) or mineral spirits (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 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.**