

PROPERTIES

COLOR:

Warm White

APPLICATION CONSISTENCY:

Brush, Trowel, Glove or Power Extrusion

AVERAGE WEIGHT / U.S. GALLON (ASTM D 1475):

11.6-11.8 lbs. (1.4 kg/l)

AVERAGE NON-VOLATILE (ASTM D 2369):

56% by volume (69% by weight)

COVERAGE RANGE (FSTM 72):

Brush: 45-55 sq. ft./gal. (1.10-1.35 m²/l)
0.036-0.029 in. (0.9-0.7 mm) wet film thickness

DRYING TIME 73°F (23°C) 50% RH (ASTM D 1640):

Set to Touch: 1 hour
Dry Through: 16 hours

SERVICE TEMPERATURE LIMITS (FSTM 165):

20°F to 200°F (-7°C to 93°C)

WET FLAMMABILITY (ASTM D 3278):

No flash to boiling, 210°F (99°C)

WATER VAPOR PERMEANCE:

ASTM E 96 Procedure A, 0.045 perms (0.030 metric perms) at 38 mils dry (0.97 mm).

SURFACE BURNING CHARACTERISTICS (ASTM E 84):

Flame Spread: 0
Smoke Developed: 0
Tested at coverage rate of 45 sq. ft. per gal. (1.1 m²/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.

VAPOR-SAFE DUCT CLOSURE MASTIC:

Is approved by Florida Power & Light for use in their Duct System Testing and Repair Programs.

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VAPOR-SAFE® DUCT CLOSURE MASTIC

VAPOR-SAFE DUCT CLOSURE MASTIC is a fire resistive, fibrated, water-based, vapor barrier sealant for indoor or outdoor 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 reinforcing membrane. Mechanical fasteners of the type and number normally used for duct assemblies are required to provide rigidity to the duct system.

VAPOR-SAFE DUCT CLOSURE MASTIC'S excellent vapor barrier properties make it the perfect choice for duct closure and butt joint sealing on both flexible and rigid faced fiberglass duct systems. It is non-flammable and has a mild odor when wet. It dries odor free.

VAPOR-SAFE DUCT CLOSURE MASTIC is ideal for vapor sealing ASJ, FRK, and FSK jackets and board facings at joints, laps, and over staple and weld pin punctures.

VAPOR-SAFE DUCT CLOSURE MASTIC meets NFPA 90A and 90B 25/50 requirements.

VAPOR-SAFE DUCT CLOSURE MASTIC meets requirements for LEED IEQ 4.2 Low-Emitting Materials, Paints and Coatings. VOC: 26 g/l, less water and exempt solvents.

VAPOR-SAFE DUCT CLOSURE MASTIC contains no asbestos, lead, mercury, or mercury compounds.



UL 181A-M
UL 181B-M
6P84

LIMITATIONS

Store and apply between 40°F (4°C) and 100°F (38°C), protect from freezing until dry.

APPLICATION GUIDE FOR FOSTER VAPOR-SAFE DUCT CLOSURE MASTIC 95-90 UL 181A-M & 181B-M LISTED

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. Brush out uniformly 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/m²). 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/m²). 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/yd² (59 g/m²).

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

Apply to clean, dry, oil-free surface by brush, trowel, or power extrusion. Brush out uniformly at 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 (1.10-1.35 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 29-35 mils (0.7-0.9 mm).

OTHER DUCT CLOSURE AND SEALING APPLICATIONS - NOT UL181 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 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. For best results, do not exceed 1/4" (6.4 mm) wet film thickness. Vapor-Safe Duct Closure Mastic has excellent weather, water, and U.V. resistance, along with low water vapor permeance 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

Vapor-Safe Duct Closure Mastic may be applied using a wide variety of power (pressure) extrusion equipment suitable for use with water-base sealants. It is a soft buttery gel with a typical viscosity range of 130,000-150,000 cps for 95-90 and 150,000-200,000 for 95-91. 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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