



Mastics, Coatings, Adhesives, Sealants

**CP-38
Chil-Low™
Vapor Retarder Coating**

DESCRIPTION

CP-38 is a water-based, high solids, flexible, vapor retarder coating for use over many types of thermal insulation including polystyrene foam. It can also be used over dry concrete and insulating cement to provide a vapor retarder coating.

CP-38 is formulated for indoor and outdoor commercial use and light duty industrial use. It is UV resistant and has a mild latex "paint type" odor. CP-38 is designed for use on pipes, vessels, ducts and equipment operating at cryogenic up to ambient temperatures. It is non-flammable in the wet state and fire resistive when dry.

CP-38 is ideal for use over ASJ, FRK and FSK jackets and board facings to give a vapor retarding seal at joints, laps and over staples and weld pin punctures. It can also be used as a duct board closure sealant.

LIMITATIONS

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

Always test foil and paper facings for acceptable adhesion before using.

Outdoor horizontal surfaces must always drain completely. A pitch of at least 1/2 inch per foot (4 cm/m) is required.

To resist rain washoff, allow at least 12 hours drying time above 50°F (10°C), with a relative humidity of 50%. Higher humidity and/or lower temperature may retard drying.

Do not apply over 1/8" (3.2 mm) wet film thickness.

Select CP-38 in white color for use over polystyrene insulation outdoors.

CERTIFIED

- This product has been tested according to ASTM E-84 (Surface Burning Characteristics of Building Materials).
- Meets requirements for LEED 2009 IEQ 4.2 Low-Emitting Materials, Paints and Coatings. VOC: 33 g/l, less water and exempt solvents.
- Meets the requirements for MIL-PRF-19565C, Type II using method ASTM E 96 Procedure A permeance.
- Contains no asbestos, lead, mercury, or mercury compounds.

COLOR

White

WET WEIGHT (ASTM D1475)

11.5 lbs.
1.38 kg/liter

AVERAGE NON-VOLATILE (ASTM D2369)

58% by volume (70% by weight)

SERVICE TEMPERATURE LIMITS

(Temperature at coated surface.)
-20°F to 180°F
-29°C to 82°C

DRYING TIME 73°F (23°C), 50% RH (ASTM D1640)

To Touch—4 hours
Through—24 hours

COVERAGE

(Subject to the surface being coated.) Wet coverages shown below are for smooth non-porous surfaces. Porous or rough surfaces will require higher gallonage to attain required dry thickness.
4 gallons/100 sq. ft. (1.6 l/sq. m) .064 in. wet thickness (1.6 mm).

WATER VAPOR PERMEANCE

ASTM E 96, Procedure A,
0.05 perms (0.03 metric perms) at 47 mils dft (1.2 mm).
0.03 perms (0.02 metric perms) at 73 mils dft (1.9mm)
ASTM F 1249: 0.08 perms (0.05 metric perms) at 37 mils dft (0.94 mm). Tested at 100°F (38°C) and 90% RH.

WET FLAMMABILITY

Flash Point: None to boiling, 212°F (100°C)

SURFACE BURNING CHARACTERISTICS (ASTM E-84)

Flame Spread	15
Smoke Develop	30
Surface	Inorganic reinforced cement board
Number of Coats	1
Coverage	25 sq. ft/gal in 4" strip

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H.B. Fuller Construction Products Inc.

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Suggested Specifications

Chil-Low™ Vapor Retarder Coating CP-38

Suggested Specifications for vapor sealing insulation on low temperature equipment, chilled water or refrigerated piping and fittings.

The insulation on all piping, fittings, and equipment shall be vapor sealed with Childers® CP-38 Chil-Low Vapor Retarder Coating. The first coat shall be a tack coat applied at a coverage rate of 2 U.S. gals./100 sq. ft. (0.8 l/sq. m). While still wet a layer of CHIL-GLAS® #10 Glass Fiber Reinforcing Mesh shall be embedded, with all seams overlapped a minimum of 2" (5.08cm). A finish coat at a coverage rate of 2 U.S. gals./100 sq. ft. (0.8 l/sq. m) shall be applied so that the total wet film thickness is a minimum of 0.064" (1.6 mm). This will provide a minimum dry film thickness of 0.037" (0.9mm).

NOTES TO SPECIFYING ENGINEER

1. Childers® CP-38 Chil-Low Vapor Retarder Coating is white in color and should be specified where white All Service Jacketing (ASJ), canvas, or other white coatings/finishings are specified on the adjoining pipe or equipment insulation.
2. Do not use over copper clad wire.
3. **All horizontal surfaces must be sloped at least 1/2 inch per foot (4 cm/m) to assure water run-off and prevent the ponding of rain water and melting snow or ice.**

Application Guide and Suggested Procedures

1. USE OF MATERIAL

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

2. APPLICATION – INDOOR AND LIGHT DUTY OUTDOOR

To prevent water vapor and moisture infiltration, proper and complete flashing is required. Follow flashing specifications.

1. Apply tack coat of CP-38 Chil-Low Vapor Retarder Coating at 2 to 4 gallons per 100 square feet (0.8 – 1.6 l/m²).
2. Embed CHIL-GLAS #10 membrane into the wet tack coat. Smooth membrane to avoid wrinkles and overlap all seams at least two inches (5 cm). Apply finish coat of CP-38 coating, within 1/2 hour of the tack coat application, at 2 gallons per 100 square feet (0.8 l/sq. m).
3. This application shall provide a minimum dry thickness of 37 - 56 mils (0.9 - 1.4 mm).

3. BRUSH

Use a good brush, suitable for water based paints, making strokes as long as possible over the surface. Apply with full brush and spread out evenly. Do not overwork.

4. SPRAY

CP-38 Chil-Low Vapor Retarder Coating may be airless spray applied. For spray equipment information, please consult Airless Spray Recommendations or contact your Spray Equipment Supplier. Average viscosity range: 60,000-90,000 cps. Corrosion resistant pumps and fittings are suggested.

5. CLEAN UP

Use fresh water to clean brushes and equipment before product dries. Dry product may be removed with hot soapy water (with ammonia added) or strong solvents such as chlorinated solvent (non-flammable) or xylol (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 six months from date of shipment to the original purchaser.

**For professional use only. Keep out of reach of children.
Consult Safety Data Sheet and container label for further information.**