



Mastics, Coatings, Adhesives, Sealants

## CP-34 Vapor Retardant Coating

### DESCRIPTION

CP-34 is a water based vapor retarder coating for use over many types of thermal insulation including polystyrene foam. It is ideal for use over ASJ, FRK and FSK jackets and board facings to provide a vapor retarding seal at joints, laps and weld pin punctures.

CP-34 is formulated for indoor and outdoor commercial use. It has a mild latex "paint type" odor and is designed for use on pipes, vessels, ducts and equipment operating between 32°F (0°C) and ambient temperatures.

CP-34 has a WVTR rating in the range of other competitive water based vapor barrier coatings. For heavier duty commercial or industrial use select Childers CP-38.

### 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 16 hours drying time above 50°F (10°C), with a relative humidity of 50%. Higher humidity and/or lower temperature may retard drying.

### CERTIFIED

- Meets NFPA Standard 90-A and 90-B 25/50 requirements when used to seal seams and punctures in vapor barrier facings and jacketing.
- 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: 38 g/l, less water and exempt solvent

See other side for specification and application information. Visit us on the web at [fosterproducts.com](http://fosterproducts.com)

### COLOR

White

### WET WEIGHT (ASTM D1475)

11.5 lbs.  
1.38 kg/liter

### AVERAGE NON-VOLATILE (ASTM D1644)

48% by volume (62% by weight)

### SERVICE TEMPERATURE LIMITS (FSTM 70)

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

### DRYING TIME (23°C) 50% RH (ASTM D1640)

To Touch – 4 hours  
Through – 24 hours

### COVERAGE

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

### WATER VAPOR PERMEANCE (TYPICAL AVERAGE)

ASTM F 1249, 0.08 perms at 45 mils dry. Tested at 100°F (38°C) and 50% RH.

ASTM E 96 Procedure A, 0.08 perms at 44 mils dry. Tested at 72°F and 50% RH

### WET FLAMMABILITY

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

### SURFACE BURNING CHARACTERISTICS (ASTM E-84)

Flame Spread:	5
Smoke Developed:	30
Surface:	Inorganic reinforced cement board
Number of Coats:	1
Coverage:	25 sq. ft./gal. (Applied in a 4 inch wide strip)

Flash Point of liquid coating, closed cup: No flash to boiling.

Made in the USA

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## H.B. Fuller Construction Products Inc.

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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-34 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". This will provide a minimum dry film thickness of 0.032".

## NOTES TO SPECIFYING ENGINEER

1. Childers® CP-34 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-34 Vapor Retarder Coating at 2 gallons per 100 sq. ft. (0.8 l/sq. m).
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-34 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 31 mils (0.8 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-34 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: 85,000-110,000 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 Material Safety Data Sheet and container label for further information.**