



Mastics, Coatings, Adhesives, Sealants

## CP-22/CP-24 CHIL-PRUF™ Insulation Coating Product Data Sheet

### ASPHALT-BASED, FIBRATED, CUTBACK, VAPOR RETARDER AND WEATHER BARRIER INSULATION COATING

#### DESCRIPTION

CHIL-PRUF™ CP-22/24 is an effective, asphalt-based, cutback, fibrated, vapor retarder coating for use over insulations on piping and equipment operating at low to moderately high temperatures. Properly applied, CHIL-PRUF™ provides protection against atmospheric corrosives, chemical dusts, fumes, fogs and moisture. The cured coating forms a highly vapor-retardant, tough, durable and well-bonded finish.

#### USES

CHIL-PRUF™ CP-22/24 has a broad application range as a vapor retarder and weather barrier over many types of insulations, including fibrous glass, polyurethane foams, glass foams and other low temperature insulation materials. It is not to be used with polystyrene foam insulation.

CHIL-PRUF™ is recommended for use in cold and dual temperature service. As a vapor retarder coating, it is used to protect insulation over fittings, piping, tanks, tank heads, process vessels and equipment. CHIL-PRUF™ also provides protection for insulation applied on underground pipelines.

#### ADVANTAGES

The highest quality asphalt used in CHIL-PRUF™ CP-22/24 provides a higher softening point than other asphalts. This results in a longer service life, greater resistance to mechanical abuse, better weathering characteristics, greater flexibility in the cured coating and extreme resistance to weather cracking.

#### GRADES AVAILABLE

CP-22: Trowel grade  
CP-24: Heavy-duty, airless-spray grade

#### COLOR

Black

#### WET WEIGHT (ASTM D1475)

8.5 lbs./U.S. gal. (1.01 kg/liter)

#### AVERAGE NON-VOLATILE (ASTM D2369)

60% to 64% by volume

#### SERVICE TEMPERATURE RANGE

Temperature to which dry film is subjected.  
-60°F to 300°F (-51°C to 149°C)

#### APPLICATION TEMPERATURE RANGE

50°F to 100°F (10°C to 38°C)

#### DRYING TIME

Temperature, humidity and film thickness will affect drying time.  
To Touch: 2 Hours  
Through: 24 Hours

#### COVERAGE

Varies with substrate and membrane.  
10 – 13 U.S. gal./100 sq. ft. (4.0 – 5.2 l/m<sup>2</sup>)

#### WATER VAPOR PERMEANCE (TYPICAL AVERAGE)

ASTM F1249: 0.02 to 0.03 perms at 0.094" (2.4 mm) film thickness.

CHIL-PRUF™ COATING meets the permeance requirements of ASTM C755-19 for below ambient vapor retarder coatings.

#### CLEAN UP

Mineral spirits (flammable) or chlorinated solvent (non-flammable)

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## MATERIAL PREPARATION

DO NOT THIN. Stir well, but do not use sticks or boards which would splinter or otherwise contaminate the product. Apply only to clean, dry, oil-free surfaces. Keep container closed when not in use. CP-22 & CP-24 cannot be successfully applied by brush. CP-22 cannot be applied by spray. Not recommended for indoor use. Outdoor horizontal surfaces must always drain completely; a pitch of at least ½" per foot (4 cm/m) is required.

## INSPECTION

Where available, it is suggested to use a National Insulation Association (NIA) certified (or other similarly certified) mechanical insulation inspector throughout the project to inspect and verify the materials and total insulation system have been installed correctly in accordance with the specifications.

## Application Guide and Suggested Procedures

### INSULATED VERTICAL SURFACES

A two-coat application is recommended; each coat is applied at a coverage rate of 4.85 gal./100 sq. ft. for a total coverage rate of 9.7 gal./100 sq. ft., with CHIL-GLAS® #10 Reinforcing Mesh embedded into the first coat (yielding a dry film thickness of 0.09375 inch).

### LARGE INSULATED EXPANSES

For large insulated expanses, such as tank tops or horizontal surfaces, a two-coat application is recommended with CHIL-GLAS® #5 or #10 Glass Fiber Reinforcing Mesh embedded between coats; each coat is applied at a coverage rate of 6.35 gal./100 sq. ft. for a total coverage rate of 12.7 gal./100 sq. ft. (yielding a dry film thickness of 0.125 inch).

### SPRAY APPLICATION

The following equipment (or equal) is recommended for spray application of CHIL-PRUF™ CP-24 coating. Please contact your spray equipment supplier for further spray equipment information.

PUMP	Graco 45:1 King Airless, Graco Checkmate pump, 68:1 ratio on 200 cc lower with NXT 6500 air motor or Checkmate pump, 63:1 ratio on 100 cc lower, NXT3400 motor
INDUCTOR PLATE AND RAM	For 55 gal. drum, Graco D200, or for 5 gal. pails, Graco D60
FLUID HOSE	½" ID (12 mm) minimum up to 50 feet (15 m) and ¾" ID (19 mm) over 50 feet (15 m) is recommended. Working pressure 5,000 psi, burst 16,000 psi
GUN	Graco Mastic or textured coating spray guns with Reverse-A-Clean tips
TIP SIZES	Graco Reverse-A-Clean tip 0.035" to 0.045" orifice
TEMPERATURE	Store in a heated area. The temperature of the CP-24 should be at least 70°F (21°C) before spraying (the capacity of inline heaters is too low to be effective)

## CUSTOMER SERVICE: 833-849-3700

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