

### HALOGEN-FREE COATING AND ADHESIVE FOR FINISHING AND ADHERING CANVAS AND OTHER LAGGING CLOTHS OVER THERMAL INSULATION

#### DESCRIPTION

CP-137 HF Protective Coating is a halogen-free, white, water-based adhesive and coating of heavy, cream-like consistency for interior applications. It brushes easily and forms a tough film over surfaces such as canvas and glass cloths. Being a water-based material, it is safe to use; it does not attack plastic foams or other adhesives. Brushes and tools are easily cleaned with water.

#### USES

CP-137 HF Protective Coating is used for adhering fabrics such as glass cloth, canvas and brattice cloth to many insulated surfaces such as round and rectangular duct work and equipment. It is also used for adhering the laps of these fabrics as well as some woven glass cloths on pipe insulation. CP-137 HF is used as a protective coating over all of the above-mentioned fabrics and also finds use as a coating over plastic foam materials such as polystyrene. CP-137 HF coating can be brushed on the joints and edges of duct liner insulation to help prevent air erosion of the glass fiber.

#### APPLICATION

CP-137 HF is normally applied by brush; the bridging properties of this coating give a smooth finish even over relatively rough fabrics such as 8 oz. canvas and brattice cloth. May also be applied by airless spray.

#### ADVANTAGES

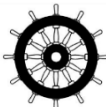
- Meets NFPA Standard 90A & 90B 25/50 requirements.
- Meets the performance requirements of MIL-DTL-3316D, Class 1, Grade A.
- Approved by the U.S. Coast Guard under 164.112/172/0 (SOLAS/IMO approval) superseding 164.012.
- Halogen-free formulation allows for compliance on tested batches to meet NRG 1.36 and MIL-DTL-24244C requirements. Special order and testing will be required for conformity per batch.
- CP-137 HF coating is non-flammable in the wet state and fire resistive when dry.
- It contains no solvents to attack insulations or facings.
- The viscosity permits overhead and vertical applications that do not sag or run for additional ease of application.
- The combination of properties afforded by this material gives it great versatility both as an adhesive and a coating.
- The polymeric resins make this an adhesive of high bond strength.
- The tough film is washable and is abrasion resistant.

#### 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: 42 g/l, less water and exempt solvents
- Collaborative for High Performance Schools EQ 7.1



1408/YY

#### COLOR

White

#### AVERAGE WET WEIGHT (ASTM D1475)

10.4 lbs./U.S. gal. (1.25 kg/liter)

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

39% by volume (51% by weight)

#### SERVICE TEMPERATURE RANGE

Temperature to which the dry coating is subjected.  
0°F to 180°F (-18°C to 82°C)

#### APPLICATION TEMPERATURE RANGE

40°F to 100°F (4°C to 38°C)

Protect from freezing until dry.

#### DRYING TIME

Drying time will vary depending upon film thickness, temperature and humidity.

Touch: 2 Hours

Through: 15 Hours

#### COVERAGE

Coverage will vary with nature of substrate, application technique and the fabric selected.

40 – 70 sq. ft. per gal. (1.0 – 1.7 m<sup>2</sup>/l) per coat

0.040 in. – 0.023 in. wet film thickness (1.0 – 0.6 mm) per coat

#### WATER VAPOR PERMEANCE (TYPICAL AVERAGE)

ASTM F1249: 1.2 perms at 0.0125 in. dry film thickness (0.8 metric perms at 0.63 mm). Tested at 24°C and 50% RH.

#### SURFACE BURNING CHARACTERISTICS (ASTM E84)



GENERAL PURPOSE COATING  
SURFACE BURNING CHARACTERISTICS  
282U

Applied to 1/4" Inorganic Reinforced Cement Board

Flame Spread: 0

Smoke Developed: 5

Number of Coats: 1

Rate per Coat (sq. ft./gal.): 40

Flash point of liquid coating  
(closed cup): No flash to boiling

R3593

#### CLEAN UP

Warm, soapy water (wet) or xylol (dry)

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## PIPE INSULATION, DUCT INSULATION AND EQUIPMENT

All insulation finished with canvas (or other fabric finishes) shall be bonded with and have their laps adhered with CP-137 HF coating. Apply only to clean, dry, oil-free surfaces. Apply a tack coat at 60 – 70 sq. ft. per gal. (1.5 – 1.7 m<sup>2</sup>/l). Immediately embed the selected lagging fabric into the wet coating. Smooth to avoid wrinkles and overlap seams by at least 2 inches (5 cm). Immediately apply a finish coat at 60 – 70 sq. ft. per gal. (1.5 – 1.7 m<sup>2</sup>/l). The dry film thickness of this application will vary with the fabric selected. For air conditioning ducts, increase the coverage rate to 40 – 50 sq. ft. per gal. (1.0 – 1.2 m<sup>2</sup>/l) for each coat.

## NOTES TO SPECIFYING ENGINEER

1. It is recommended that in using most types of pre-sized glass cloth facings, CHIL-STIX® FRN CP-82 Adhesive be used as the lap adhesive.
2. The above suggested specification is for hot piping and equipment. It may be used for equipment operating as low as 55°F (13°C) in northern climates where a material with a perm rating of 1.2 is adequate.
3. If CP-137 HF is to be top coated with anything other than an alkyd enamel conforming to DOD-E-24607 as specified in MIL-A-3316C, the user must confirm by his/her own tests that the products are compatible and that the final results are satisfactory.

## Application Guide and Suggested Procedures

### 1. USE OF MATERIAL

CP-137 HF coating brushes easily despite its somewhat heavy appearance. It should be stored indoors and above freezing temperatures, and should not be applied below 40°F (4°C) nor above 100°F (38°C) for best results. **STIR WELL, DO NOT THIN.**

### 2. THE CONDITION OF THE SURFACE TO BE ADHERED OR COATED

Certain surfaces which are dusty or porous such as calcium silicate or certain mineral fiber materials should first be primed with a light coat of CP-137 HF adhesive diluted 50% with water for proper bonding. A coating or adhesive will adhere no better than the integrity of the surface to which it is applied. Not suggested for outdoor use.

### 3. APPLICATION

CP-137 HF coating is extremely easy to apply by brush and the same procedure would be used as applying latex paints or similar brush-on coatings. Brushes or other tools should be kept in water and cleaned with hot, soapy water. CP-137 HF coating may be sprayed with many types of equipment, including airless spray. It may also be sprayed with conventional mastic spray equipment using an external atomizing spray gun. Average viscosity range: 55,000 – 75,000 cps. For best results, we suggested the following airless spray equipment.

PUMP	Graco Bulldog Hydra-Mastic, 40:1 ratio (model 204-925) air regulator with inductor plate (207-039)
COMPRESSOR	Capable of 75 CFM and maintaining 100 PSIG
FLUID HOSE	High pressure capable of 4,000 PSI. One inch up to 150 feet. ¾" after the first 150 feet. Use 8' (2.4 m) ½" I.D. hose for coupling to the gun
GUN	Graco Hydra-Mastic #207-300 with Reverse-A-Clean 205-614
TIP SIZES	627 to 635

### 4. HINTS FOR SUCCESS

CP-137 HF coating is an excellent adhesive and also has good resistance to many chemicals and solvents. Spillage of this material should be cleaned immediately.

## CUSTOMER SERVICE: (800) 832-9002

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