

FUNGUS-RESISTANT COATING AND ADHESIVE FOR FINISHING AND ADHERING CANVAS AND OTHER LAGGING CLOTHS OVER THERMAL INSULATION

DESCRIPTION

CHIL-SEAL® CP-137 AF (Anti-Fungal) coating is a white, fire-resistive coating which is also an excellent adhesive. It brushes easily and forms a tough film over surfaces such as glass cloth or canvas. It will not attack plastic foams or other adhesives. Brushes and tools are easily cleaned with water.

CP-137 AF coating is specially formulated with additional antimicrobials built into the coating to protect it from fungus or odor-producing bacteria on its surface. It is specially formulated with fungistatic agents to provide long-term resistance to mold or mildew growth on its surface.

USES

CP-137 AF coating is used for adhering fabrics such as glass cloth, canvas (up to 8 oz.) 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.

APPLICATION

CP-137 AF coating is easily applied by brush or spray. It is sometimes used for dipping canvas where more complete saturation and shrinkage is desired. The normal application is by brush; the bridging properties of this coating give a smooth finish even over relatively rough fabrics.

ADVANTAGES

- CP-137 AF 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 and unusual permanence.
- 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: 43 g/l, less water and exempt solvents
- Collaborative for High Performance Schools EQ 7.1
- Meets NFPA Standard 90A & 90B requirements



COLOR

White

AVERAGE WET WEIGHT (ASTM D1475)

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

AVERAGE NON-VOLATILE (ASTM D2369)

40% by volume (51% by weight)

SERVICE TEMPERATURE RANGE

Temperature to which the dry coating is subjected.
0°F to 180°F (-18°C to 83°C)

APPLICATION TEMPERATURE RANGE

40°F to 100°F (4°C to 38°C)

DRYING TIME

Drying time varies 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. per coat (1.0 – 1.7 m²/l)

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

WATER VAPOR PERMEANCE (TYPICAL AVERAGE)

ASTM F1249: 0.5 – 1.3 perms at 0.031 in. dry film thickness (0.9 metric perms at 0.8 mm)

FUNGAL RESISTANCE (ASTM D5590)

Rating = 0

SURFACE BURNING CHARACTERISTICS (ASTM E84)

	GENERAL PURPOSE COATING SURFACE BURNING CHARACTERISTICS 282U	
	Applied to ¼" Inorganic Reinforced Cement Board	
	Flame Spread:	10
	Smoke Developed:	5
	Rate per Coat (sq. ft./gal.):	40
	Number of Coats:	1
	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 CHIL-SEAL® CP-137 AF coating. Apply only to clean, dry, oil-free surfaces. Apply a tack coat at 60 – 70 sq. ft. per gal. (1.5 – 1.7 m²/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 m²/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 m²/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 1.3 is adequate.

Application Guide and Suggested Procedures

1. USE OF MATERIAL

STIR WELL, DO NOT THIN. CHIL-SEAL® CP-137 AF coating brushes easily. 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.

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 AF coating 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.

3. APPLICATION

CHIL-SEAL® CP-137 AF coating is easy to apply by brush or roller. The same procedure would be used when applying latex paints or similar brush-on coatings. Brushes or other tools should be kept in water and cleaned with hot, soapy water. CHIL-SEAL® CP-137 AF 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. Many manufacturers of spray equipment can make detailed recommendations for any number of types of equipment. The spray equipment and techniques would be similar to those used for applying block fillers or heavy, latex paints. 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

CHIL-SEAL® CP-137 AF coating is an excellent adhesive and also has good resistance to many chemicals and solvents. Spillage of this material should be cleaned immediately by washing with water. If it is allowed to dry, the best method for attempted cleanup is hot water, detergent and a wire brush.

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

CUSTOMER SERVICE: (800) 832-9002

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