



Mastics, Coatings, Adhesives, Sealants

CHIL-SEAL® CP-50A MV1 Coating

Product Data Sheet

COMBINATION COATING AND ADHESIVE FOR FINISHING AND ADHERING CANVAS AND OTHER LAGGING CLOTHS OVER THERMAL INSULATION

DESCRIPTION

CHIL-SEAL® CP-50A MV1 coating is a white coating which is also an excellent adhesive. It brushes easily, forming a tough film even over surfaces such as glass cloth or canvas. 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. CHIL-SEAL® CP-50A MV1 coating is fire-resistive. It is also available in Marine Grade (CP-50A HV2 coating), which meets MIL-A-3316 specification and USCG 164.012.

USES

CHIL-SEAL® CP-50A MV1 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.

CHIL-SEAL® CP-50A MV1 coating is used as a coating over all of the above mentioned fabrics and also can be used as a coating over plastic foam materials such as polystyrene. CHIL-SEAL® CP-50A MV1 coating can be brushed on the joints of duct liner insulation to help prevent air erosion of the glass fiber.

APPLICATION

CHIL-SEAL® CP-50A MV1 coating is easily applied by brush, roller coat or spray. It can be 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 such as 8 oz. canvas and brattice cloth.

ADVANTAGES

- CHIL-SEAL CP-50A MV1 Coating is non-flammable in the wet state and fire-resistive when dry.
- It contains no solvents to attack insulations or facings.
- The combination of properties afforded by this material gives a 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 abrasion resistant.

CERTIFIED

- Meets NFPA Standard 90A & 90B 25/50 requirements.
- This product has been tested according to ASTM E84 (Surface Burning Characteristics of Building Materials).
- Meets requirements for LEED IEQ 4.2 Low-Emitting Materials, Paints and Coatings. VOC: 48 g/l, less water and exempt solvents.

COLOR

White

WET WEIGHT (ASTM D1475)

10.5 lbs./U.S. gal. (1.3 kg/liter)

AVERAGE NON-VOLATILE (ASTM D2369)

34% by volume (47% by weight)

SERVICE TEMPERATURE RANGE

Temperature to which dry film is subjected.
-20°F to 180°F (-29°C to 83°C)

APPLICATION TEMPERATURE RANGE

40°F to 100°F (4°C to 38°C)

DRYING TIME

Film thickness, temperature and humidity will affect drying time.
To Touch: 3 Hours
Through: 12 to 36 Hours


COVERAGE

Coverage will vary with substrate & membrane.
1.0 – 1.25 U.S. gal./100 sq. ft. (0.4 – 0.5 l/m²) per coat on canvas
1.25 – 2.5 U.S. gal./100 sq. ft. (0.5 – 1.0 l/m²) per coat on brattice cloth
1.0 U.S. gal./100 sq. ft. (0.4 l/m²) per coat on smooth dense surfaces

CLEAN UP

Warm, soapy water (wet) or mineral spirits (dry)

SURFACE BURNING CHARACTERISTICS (ASTM E84)

	GENERAL PURPOSE COATING SURFACE BURNING CHARACTERISTICS	
	Applied to 1/4" Inorganic Reinforced Cement Board	
Flame Spread:		10
Smoke Developed:		0
Rate per Coat (sq. ft./gal.):		80
Number of Coats:		1
Flash Point of Liquid Coating (Closed Cup):		No flash to boiling
282U		

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Suggested Specifications

CHIL-SEAL® CP-50A MV1

Pipe insulation, duct insulation and equipment

All insulation finished with canvas (or other fabric finishes) shall have their laps adhered with CHIL-SEAL® CP-50A MV1 coating. A finish coat of CHIL-SEAL® CP-50A MV1 coating shall be applied to the entire outer surface of the lagging cloth at a coverage not less than 1 gallon per 100 sq. ft. (0.4 l/m²) for canvas and 1.25 gallons per 100 sq. ft. (0.51 l/m²) for brattice cloth.

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.

Application Guide and Suggested Procedures

1. USE OF MATERIAL

STIR WELL, DO NOT THIN. CHIL-SEAL® CP-50A MV1 coating brushes easily. Where dipping of canvas is specified or recommended, dilute 4 parts of CHIL-SEAL® CP-50A MV1 coating with a maximum of 1 part water. 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 CHIL-SEAL® CP-50A MV1 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-50A MV1 coating is extremely easy to apply by brush or roller coater, and the same procedure would be used as applying latex paints or similar brush-on coating. Brushes or other tools should be kept in water and cleaned with hot, soapy water.

CHIL-SEAL® CP-50A MV1 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 are similar to those used for applying block sealers or heavy, latex paints. For best results, we suggest the following airless spray equipment.

PUMP	Graco Bulldog Hydramastic, 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. 3/4" after the first 150 feet. Use 8' (2.4 m) 1/2" 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-50A MV1 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.

CUSTOMER SERVICE: (800) 832-9002

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