

### **HIGH VISCOSITY COATING AND ADHESIVE FOR FINISHING AND ADHERING CANVAS AND OTHER LAGGING CLOTHS OVER THERMAL INSULATION Military Specification MIL-A-3316C, Class 1, Grade A**

#### **DESCRIPTION**

CHIL-SEAL® CP-50A HV2 coating is a high viscosity, white coating of heavy, cream-like consistency, which is also an excellent adhesive. It brushes easily and yet forms 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.

#### **USES**

CHIL-SEAL® CP-50A HV2 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 HV2 coating is used as a coating over all of the above mentioned fabrics and also finds use as a coating over plastic foam materials such as polystyrene. CHIL-SEAL® CP-50A HV2 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 HV2 coating is easily applied by trowel, brush or spray. The normal application is by trowel or 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 HV2 coating is non-flammable in the wet state and fire-resistive when dry.
- It contains no solvents to attack insulations or facings.
- The high 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 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**

- Meets NFPA Standard 90A & 90B 25/50 requirements.
- Qualifies under Coast Guard Specification 164.012.
- 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: 46 g/l, less water and exempt solvents.
- Meets the requirements of Military Specification MIL-A-3316C, Class 1, Grade A, and is listed on the QPL.
- CP-50A HV2 contains no asbestos, lead, mercury, or mercury compounds.

#### **COLORS**

White

#### **WET WEIGHT (ASTM D1475)**

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

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

45% by volume (54% by weight)

#### **SERVICE TEMPERATURE RANGE**

Temperature to which dry coating is subjected.  
-20°F to 180°F (-29°C to 82°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: 2 Hours  
Through: 12 to 36 Hours

#### **COVERAGE**

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

1.0 – 1.25 U.S. gal./100 sq. ft. (0.4 – 0.5 l/m<sup>2</sup>) per coat on canvas

1.25 – 2.5 U.S. gal./100 sq. ft. (0.5 – 1.0 l/m<sup>2</sup>) per coat on brattice cloth

1.0 U.S. gal./100 sq. ft. (0.4 l/m<sup>2</sup>) per coat on smooth dense surfaces


#### **CLEAN UP**

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

#### **WATER VAPOR PERMEANCE (TYPICAL AVERAGE)**

ASTM E96, PROCEDURE B: 1.0 perm

#### **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 HV2

## 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 HV2 coating. A finish coat of CHIL-SEAL® CP-50A HV2 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/m<sup>2</sup>) for canvas or glass cloth and 1.25 gallons per 100 sq. ft. (0.51 l/m<sup>2</sup>) 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.
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 1.0 is adequate.

# Application Guide and Suggested Procedures

## 1. USE OF MATERIAL

CHIL-SEAL® CP-50A HV2 coating brushes easily despite its somewhat heavy appearance. STIR WELL, DO NOT THIN. 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 HV2 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 HV2 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 warm, soapy water.

CHIL-SEAL® CP-50A HV2 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 sealers or heavy latex paints. For best results, we suggest the following airless spray equipment.

PUMP	Graco NXT3400, 40:1 ratio, air regulator with Ram.
COMPRESSOR	Capable of 75 CFM and maintaining 100 PSIG.
FLUID HOSE	High pressure capable of 4,000 PSI. 3/4 inch up to 100 feet. Use 8' (2.4 m) 1/2" I.D. hose for coupling to the gun.
GUN	Graco Mastic or Textured Coating guns with Reverse-A-Clean tips.
TIP SIZES	627 to 635.

## 4. HINTS FOR SUCCESS

CHIL-SEAL® CP-50A HV2 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.

## 5. TOP COATING

If CP-50A HV2 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 own tests that the products are compatible and that the final results are satisfactory.

## CUSTOMER SERVICE: (800) 832-9002

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