



Mastics, Coatings, Adhesives, Sealants

CP-79 CHIL-LASTIC™ Sealant and Coating Product Data Sheet

HIGH-TEMPERATURE, ASPHALT SEALANT AND COATING

DESCRIPTION

CHIL-LASTIC™ CP-79 is a multi-purpose, high-temperature sealant and coating. It is applied by trowel over all types of thermal insulations. Do not use in conjunction with polystyrene. Being an asphalt-based coating, CHIL-LASTIC™ CP-79 forms a tough, durable, heavy film when applied. It can be used at elevated temperatures. CHIL-LASTIC™ CP-79 should be allowed to cure at ambient temperature with thorough ventilation before hot lines, vessels or tanks are put into operation. Failure to do so may increase the possibility of residual solvent boiling out of the film.

USES

CHIL-LASTIC™ CP-79 is used as flashing material in the sealing of boiler settings to prevent air infiltration. It is also used in refractory applications.

APPLICATION

CHIL-LASTIC™ CP-79 is normally applied by trowel or heavy duty airless spray. See reverse side of product data sheet for spray recommendations. CP-79-T trowel grade has a heavy body and can be applied in wet thicknesses up to 1/8" (0.31 cm) without sagging or running. CP-79-T or CP-79-S cannot be successfully applied by brush. CP-79-T cannot be spray applied. Failure to apply the full coverage specified can result in premature failure of the product. Do not under-apply CP-79.

ADVANTAGES

- CHIL-LASTIC™ CP-79 exhibits good adhesion to most surfaces.
- It is acid and alkali resistant and will not freeze, decompose or show settling or separation in storage.
- CHIL-LASTIC™ CP-79 provides an excellent water and vapor seal.
- It forms a tough, protective coating when cured, which does not tend to crack or peel during normal equipment operation.
- CHIL-LASTIC™ CP-79 requires no special mixing or additives.

COLOR

Black

APPLICATION CONSISTENCY

CP-79-T: Trowel

CP-79-S: Heavy duty airless spray

WET WEIGHT (ASTM D1475)

CP-79-T: 8.6 lbs./U.S. gal. (1.03 kg/liter)

CP-79-S: 8.6 lbs./U.S. gal. (1.03 kg/liter)

AVERAGE NON-VOLATILE (ASTM D2369)

CP-79-T: 63% by volume

CP-79-S: 63% by volume

SERVICE TEMPERATURE RANGE

Temperature to which dry coating is subjected.

Exposed surface: 75°F to 350°F (-59°C to 177°C) continuous

Behind refractory, block or spray-applied: temperatures at the refractory face can be 500°F (260°C) or higher, provided the temperatures behind the refractory (between the CP-79 and the steel shell) do not exceed -75°F to 350°F (-59°C to 177°C) continuous

APPLICATION TEMPERATURE RANGE

Temperature of product when applied.

50°F to 100°F (10°C to 38°C)

STORAGE TEMPERATURE RANGE

40°F to 100°F (4°C to 38°C)

DRYING TIME

Drying time is dependent upon temperature, humidity, rate of air flow over the surface and film thickness.

To Touch: 4 – 8 Hours

Through: 14 Days

COVERAGE

Varies with substrate.

CP-79-T: 8 gal./100 sq. ft. (3.2 l/m²) 0.128 in. wet film thickness (3.3 mm)

CP-79-S: 10 gal./100 sq. ft. (4.1 l/m²) 0.160 in. wet film thickness (4.1 mm)

FLASH POINT

Over 100°F (37°C)

CLEAN UP

Mineral spirits (flammable)

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6107 Industrial Way • Houston, TX 77011 • 833-849-3700

Application Guide and Suggested Procedures

1. DETERMINING THE PROPER VISCOSITY

It is necessary to determine the method of application based upon the overall size of the object being coated, since CHIL-LASTIC™ CP-79 Sealant/Coating is available in two viscosities (CP-79-T for trowel application and CP-79-S for spray application). Large, flat areas and/or objects that lend themselves to application by spray; CP-79-S is most appropriate for this type of situation. Smaller, irregularly shaped objects, such as fittings, lend themselves to application by trowel; CP-79-T is most appropriate for this type of situation. In addition, cost of spray equipment rental, purchase or use may be a factor in determining method of application. After the proper application has been determined, the proper product viscosity can be ordered. **DO NOT THIN.**

2. SERVICE TEMPERATURE RANGE

For the temperature at the coated surface (the exposed surface), the service temperature range is -75°F to 350°F (-59° to 177°C) if the temperature is continuous.

Behind refractory, block or spray-applied, the temperatures at the refractory face can be 500°F (260°C) or higher, provided the temperatures behind the refractory (between the CP-79 and the steel shell) do not exceed -75°F to 350°F (-59°C to 177°C) if the temperature is continuous.

3. APPLICATION

Prepare steel surfaces by abrasive grit blasting to remove all traces of mill scale, rust, paint and corrosion products. Remove all dust and grit from the surface. Apply the CP-79 promptly, before the blasted surface can flash rust. If absolutely necessary, the blasted surface may be primed with a thin coat of CP-79 cut 50/50 with mineral spirits. Apply the full thickness CP-79 application within 30 days.

4. SPRAY APPLICATION

CHIL-LASTIC™ CP-79-S Sealant/Coating is most readily applied by airless spraying equipment. Airless spray is faster, neater and gives a better, more uniform finish. A two-coat application will be required. Allow the first coat to set firm before applying the second coat.

Industrial spray equipment is required to spray CP-79-S. It has a relatively high pseudoplastic consistency and a typical viscosity of 100,000 cps to 150,000 cps (Brookfield speed of 20 at 25°C). For this reason, it is necessary to have the spray unit mounted on an inductor plate (also called a ram plate) which will keep feed pressure on the mastic to the pump and avoid cavitation. For best results, consult a qualified industrial spray equipment dealer for equipment recommendations. Contact Foster® technical support for additional tips on equipment selection.

Pump	Minimum 45:1 ratio pump with volume capacity to feed a 0.045" spray tip is suggested
Ram Plate	Required
Tip	Reverse-A-Clean tip 0.045" orifice
Material to Hose to Gun	6-foot whip end, 1/2" I.D., working pressure 5,000 psi, burst 16,000 psi
Material Hose – 50 ft. overall	3/4" I.D. 50' long, working pressure 4,000 psi, burst 16,000 psi
Material Hose – 100 ft. overall	1" I.D. 100' long, working pressure 3,000 psi, 12,000 psi burst
Heat	Store CHIL-LASTIC™ CP-79-S Sealant/Coating in a heated area. The temperature of the CP-79-S should be at least 70°F (21°C) before spraying. The capacity of inline heaters is too low to be effective

Most manufacturers of mastic spray equipment maintain nearby service facilities to aid in the solution of any technical problems that arise with their equipment.

5. 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.

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.**