

This is an abbreviated guide and is not intended as a substitute for the Long Form Firesolve SB Application & Installation Manual. Applicator shall completely and fully read and understand the Long Form Application & Installation Manual prior to applying this product.

PUMP REQUIREMENTS:

Pneumatic, electric or gas-powered airless spray pump operating with a minimum fluid pressure of 3,000 psi (207 bar, 20.7mPa, 211 kq/cm²) and 1.25 gpm (4.7 L/M). Remove all filters and rock catcher screens. A direct immersion pump is required. Pumps that utilize siphon hoses at the material intake are not recommended. Recommended pump is a Graco Mark V, Graco 1595, or equivalent.

MIXING REQUIREMENTS:

Standard shielded drywall mixing paddle or Jiffy style mixer, thoroughly mix for 3-5 minutes prior to use.

HOSE SET-UP:

High pressure, minimum 3/8 in. (10 mm) I.D. hose rated to exceed the maximum pump capacity. An optional 1/4 (6.35 mm) in I.D. whip hose is allowable at a maximum of 2 ft. (61 cm) in length. Overall hose length is dependent on the application equipment being used.

SPRAY GUN:

A Graco HD Texture Spray Gun Model #241-705, Series B, WIWA 500 F or equivalent with diffuser tip removed capable of handling a minimum 3,000 psi (207 bar, 20.7mPa, 211 kq/cm²) fluid pressure.

SPRAY TIP:

Reversible type. Tip size 223-527.

BRUSH:

Use a high-grade soft bristle latex paint brush. Brush lightly in one direction using as few strokes as possible. Do not roll the material.

SURFACE PEPARATION:

All structural steel to be coated with Firesolve SB must first be primed with an approved primer. Primed surface must be free from any grease oil, dirt, loose mill scale, rust or any other contaminant that would inhibit the bond of the product to the primer. Primer must be fully cured and installed in accordance with the primer manufacturer's application instructions before application.

GALVANIZED AND ZINC-RICH PRIMERS:

Firesolve SB cannot be applied directly to galvanized steel or directly over Zinc-Rich primers. An approved tie-coat must be applied in accordance with the manufacturer's instructions. Contact Isolatek Technical Services for more information.

SPRAY GUN DISTANCE:

When operating the spray pump at the recommended 1100 to 1300 psi, the distance between the spray gun and substrate should be a maximum of 12 in. (31 cm).

APPLICATION TEMPERATURE:

Apply product when the ambient air temperature is between 35°F (2°C) and 110°F (43°C). A minimum ambient and substrate temperature of 35°F (2°C) must be maintained during and a minimum of 72 hours after application. Steel surface temperature must be a minimum 4°F (2°C) above the dew point to prevent condensation from forming. The maximum substrate temperature is 125°F (52°C).

HUMIDITY:

Do not exceed a relative humidity of 85%. Precautions must be taken to avoid condensation forming on the steel during application. Do not apply product if condensation is present.

WEATHER PROTECTION:

As a solvent based material, Firesolve SB is suitable to be left exposed to environmental conditions during the construction cycle. However, the material must be awarded a short period of time after application prior to being exposed to direct rain, typically 10-15 minutes.

MASKING:

Required on all areas not to receive Firesolve SB. Masking typically consists of lightweight polyethylene plastic and the appropriate tape/adhesive. It is installed to protect all surfaces to receive product. It should be noted that the Firesolve SB has "dry fall" characteristics over 10 feet below application area.

CATCH COAT:

When applying a maximum 45 mils per pass, a catch coat is not required. Contact Isolatek International for recommendations when application takes place in low temperatures.

SUBSEQUENT COATS:

Product can be applied at 45 wet mils per coat. A second coat may be applied within one spray day, provided a minimum drying time of 4 hours is allowed between coats. A maximum of 2 coats can be applied per spray day (24 hrs).

VENTILATION:

Provide a minimum of 4 complete air exchanges per hour until the material is dry

DRY TIME:

A minimum Shore D value of 50 should be achieved prior to the application of a finish coat.

TOPCOATING:

A topcoat is not required by UL for Conditioned Interior Space Purpose. Refer to the UL Listings for finish coat requirements.

NOTE: The interior finish coat material must be applied in full accordance with the coating manufacturer's written instructions. DO NOT APPLY THE TOPCOAT UNTIL THE FINAL THICKNESS OF THE FIRESOLVE SB IS VERIFIED AND THE FINISH OF THE INSTALLED PRODUCT IS ACCEPTABLE.

SAFETY PRECAUTIONS:

Safety glasses, gloves, and a cartridge respirator, suitable for solvent based materials, should be worn in cases where individuals are exposed to airborne mist of the material. Refer to the SDS for complete health and safety information.

STORAGE/SHELF LIFE:

Product must be stored in a dry environment with temperatures between 32°F (0°C) and 100°F (38°C). The shelf life of the material is 18 months in unopened, sealed containers, properly stored. *The material may be transported in temperatures down to 0°F (-18°C).

CAFCO FIRESOLVE SB contains long fibers. Due to the nature of the product, these fibers may appear on areas of the surface of the substrate during application. The following methods have been proven to mitigate and significantly reduce the appearance of the fibers on the sprayed surface:

Pump Pressure: The pump should be set to a pressurized setting of ~1200 psi so that operating pressure will be between 1100-1300 psi while the material is being applied.

Spray Distance: The distance from the substrate should not exceed 12 inches and the nozzle should remain perpendicular to the substrate as much as possible.

Application Speed: The material should be applied at a slow, steady and even pace. Excessive speed per pass often results in less control of distance and may lead to more texture and fiber build up on the surface.

Fiber Build-up: If fiber appears on the surface of the coating, we recommend abrading these areas prior to subsequent coats. This can be done with a standard rasp or carbide tip scraper. If surface imperfections are not corrected proactively, this may result in additional work required to achieve a uniform finish.

NOTE: Only the listed equipment and procedures are approved for applying Firesolve SB. Deviations from these requirements will result in product not meeting claims as published in the literature. **For additional information, please contact Isolatek International.**