

DESCRIPTION

This guide covers proper application tips when spraying CPR coatings. Airless spray equipment is an effective method of application particularly on large areas and irregular or vertical surfaces. Gas powered spray equipment can also be used (consult with equipment manufacturer for recommendations). Air-atomized application is not recommended.

NOTE: CPR System can be applied by brush, roller or spray.

Personnel using these products should familiarize themselves with procedures for personal safety, workplace precautions, and equipment operation. Refer to product data sheet, safety data sheet, and general instructions for the spray pumps.

APPLICATION

Climatic Conditions

1. Rain, fog, dew, frost, and relative humidity above 90% will adversely affect adhesion and physical properties of the coating. Do not apply if any of these conditions exist or will exist within five hours of application. The substrate must be dry at the time of application.
2. At temperatures below 60°F (16°C), store and maintain material temperature above 65°F (18°C) in the container. Spray application is not recommended below 50°F (10°C).
3. At temperatures above 80°F (27°C), reduce the application rate on vertical, high slope or irregular surfaces to prevent sags or runs. Do not apply when temperatures are above 95°F (35°C).

Spray Equipment

Airless spray equipment generates very high fluid pressure. Spray equipment must be properly maintained and operated. Any misuse of spray equipment or accessories (such as over-pressurizing, modified parts, or worn or damaged parts) can result in serious bodily injury, fire, explosion, or property damage. Read and follow the equipment manufacturer's instructions and recommendations.

Airless spray pump must have minimum 4,000 psi output pressure rating and adequate delivery volume to support the spray tip orifice gallons per minute rating. High-pressure airless sprayers with a higher maximum pressure capability will allow spray application in cooler weather or by using spray hose lengths greater than 200 feet (60.96 m).

Spray Pump Recommendations

2. Spray Pump Recommendations:
 - a. Pump Ratio 45:1
 - b. Hose 3/8" ID Hose first 50' (15.24 m) with swivel connections and 1/2" ID hose for second 150' (45.72 m)
 - c. Pressure 4,000 psi
 - d. Working pressure is 2,000 psi min. at the gun. Depending on equipment set-up, you may be able to spray the coating as low as 1,800 psi. Based on tip size, raise pressure to remove fingers in spray pattern
 - e. High-pressure fittings
 - f. Input flow 100 psi
 - g. Tip = .025-.031 for an 10" pattern at 12" distance when spraying the CPR White Coating or CPR Base Coat
 - h. Recommended 12" extension with swivel tip
 - i. Tip and pump sizes will change depending on temperature and pattern concerns
 - j. Tip = .035 when spraying the CPR Seam Sealer BG

Spraying Technique

1. Hold the spray gun perpendicular to the surface at a distance of 18" to 24" (46 cm to 61 cm) from the roof. While triggering the spray gun, move it at a rate to produce the desired wet coating mil thickness without thin spots or "holidays." Spray technique should include a "half lap" technique where each spray pass is overlapped 50% for uniform coverage. Check applied film thickness using a wet mil gauge. (32 wet mils per 100 sq. ft. (9.29 m²).
2. Using the 3,000 psi fluid pressure will provide a uniform spray pattern without fingering.
3. Allow a minimum of 24-72 hours cure time between coats for cure and solvent evaporation

NOTE: Spray across roof and back-roll as needed to ensure uniform coverage, then back-spray across the same area to complete application.

Spraying Precautions

1. Rope off the area within 150 ft. (45.72 m) of spray area.
2. Seal off ventilation intakes within the affected area.
3. Use windbreaks, where necessary, to confine spray mist and avoid damage to nearby surfaces due to overspray or drift.
4. Keep spectators and personnel away from spray area.

CLEAN UP

1. Clean airless spray equipment with mineral spirits. Re-circulate thinner through pump supply, airless spray pump and spray hose to remove residual coating. Then flush with clean mineral spirits.
2. Do not leave in airless spray system for more than one hour. Under certain conditions, it is possible for these coatings to gel or harden inside the equipment.
3. For long-term storage, a final flush with mineral spirits is recommended.
4. For further details, consult with technical support or a sales representative.



Protection Equipment

1. In case of insufficient ventilation, wear a positive-pressure supplied-air respirator.
2. Fabric coveralls are recommended.
3. Impervious gloves are recommended.

COLD WEATHER RESTRICTIONS

Do not attempt application if ice, snow, moisture or dew is present. Restrict application when overnight temperature drops below 35 F (1.7 C). Ambient temperature must be 40°F (4.4°C) and rising through the day. Cooler temperatures will negatively impact the properties of the system. Contact your Garland Sales Representative for proper cold weather applications.

HOT WEATHER RESTRICTIONS

Do not attempt application if moisture or dew is present. Ambient temperature must be less than 95°F (35°C). Contact Garland Sales Representative for proper hot weather application.

STORAGE

CPR on the job site should be stored in a shaded ventilated area under a light-colored breathable reflective tarp. Do not store in direct sunlight. Storage temperature must range from 60-80 °F (15 °C to 26 °C). Indoor ventilated storage is recommended when ambient temperature is below 60 °F (15 °C) or above 80 °F (26 °C).

Mixing

1. Settling or separation may occur upon storage.
2. Mix material before using to assure uniform consistency. Use Jiffy mixer for open head drums.
3. Ground container and equipment to prevent accumulation of static charge.