



APPLICATION GUIDE



One of the most important aspects of a successful coating application is the ability of the applicator to successfully transfer the coating from the container to the surface. This guide has been prepared to assist the applicator in achieving that goal.

SUBSTRATE AND SURFACE PREPARATION

Proper surface preparation is paramount to the successful application of an industrial coating. The better the surface preparation, the better and longer lasting the performance of the coating.

- Remove all oil, grease, dirt, soil, salts and contaminants from the surface to be coated
- Soluble salts and emulsifiable contaminants are best removed with pressurized water and specialized detergents

DO NOT USE MATERIALS CONTAINING SOLVENTS OR HAP's TO CLEAN SURFACES OR ON SURFACE WIPES

- Steel surfaces should be prepared to a minimum of SSPC-SP 2 or SSPC-SP 3
For Harsh Environments consult EPOX-Z
- Any remaining abrasive media must be removed from the surface. Coating performance will be compromised if applied over any residual media. A thorough vacuuming of the abraded surface is recommended
- If used over lead or asbestos materials all applicable state and federal regulations for proper surface preparation and encapsulation must be followed

APPLICATION EQUIPMENT

- Conventional spray or airless equipment 30:1 min pump ratio generating minimum operating pressure of 4500 psi. .019 -.039 Tip Size 20° to 40° Fan Angle depending on section being sprayed
- Electric airless is not suitable
- Brush or epoxy adhesive roller

MIXING

Proper mixing is critical for achieving a consistent and uniform coating.

- Any unmixed resin or hardener will not cure properly! Only adequate mixing will result in a successful coating
- EPOX-Z is a two-part system. Mix Part A container with a ½" drill equipped with an industrial paddle. Mix at medium speed for 5 minutes. Then pour entire contents of Hardener part B into the Resin Part A container. Scrape the sides and bottom of the container and fold coating into itself and continue to mix until a homogenous mixture is obtained
- **DO NOT ADD ANY SOLVENTS, WATER, SUBSTANCES OR AGENTS OF ANY KIND TO EPOX-Z PRODUCTS. BE CERTAIN LINES ARE FREE OF THE ABOVE SUBSTANCES PRIOR TO APPLICATION OF EPOX-Z PRODUCTS**

APPLICATION PROCEDURES

- Conventional or Airless Spray: A single coat built up with a number of quick passes allows greater control over quantities, thickness and finish. In certain conditions it may be advantageous to apply multiple thin coats rather than one thick coat
- For brush application, a fully loaded brush should be used. A laying on stroke should be used
- A 9 or 18 inch epoxy adhesive roller with ¼ inch nap is required
- Application rates at an ambient temperature of 72°F Airless Spray 14 mils WFT
Brush/Roller 14 mils WFT
- Surface temperature should be a minimum of 5°F above dew point. Protect uncured coating from running water until the coating is completely dry.
- EPOX-Z has a theoretical pot life of 60 minutes @ ambient temperatures (72° F / 50% RH).

ROOFING APPLICATION EPOX-Z NRG

These instructions are in addition to the above general practices

PREPARATION: All surfaces must be dry and free of dust, dirt, oil, loose granules, gravel, peeling paint and all other foreign matter. Rusted metal must be cleaned with a wire brush. Surfaces with mildew growth or stains must be cleaned, as noted above, prior to applying this product. Rinse thoroughly. Pressure washing entire surface is not required but recommended. For best results (use only a wide fan tip - do not allow stream to tear into roof surface). Repair all leaks and cracks with appropriate materials. Surfaces previously coated with aluminum, asphalt or tar should be allowed to cure for a minimum of one summer season prior to coating with this product. Do not heat or thin.

APPLICATION: For exterior use only. Protective clothing and eyewear should be used during application of this product. Always apply on a clear day.

Apply in morning hours to allow maximum cure time. Air temperatures must be above 45°F (for 24 hours) and rising, but not above 110°F.

Apply with a 1/4" nap exterior paint roller or professional sprayer apply one coat as cited above Allow to fully cure before allowing foot traffic

Higher humidity, thicker films, poor air flow and lower temperatures will effect dry times.

NOTE: If roof surface becomes hot (over 140° F) during application cease application until roof surface temperature falls to below 90° F

THICKNESS MEASUREMENT

- During application, wet film thickness should be checked with a wet film gauge. Insert the teeth into the wet coating. The last tooth coated indicates the thickness achieved. Recommend minimum of 10-12 mil thickness.
- EPOX-Z contains no solvents and does not exhibit any appreciable shrinkage. WFT should be equal to DFT.

CURING SCHEDULE

Curing times are dependent upon a number of factors.

- Temperature
- Air Movement
- Humidity
- Thickness of EPOX-Z
- Method of application
- Anticipate a full cure time of 48 hours at 72°F.

CLEANUP

Pump, mixer and hose should be cleaned according to the equipment manufacturers' specifications.

Do not allow EPOX-Z to cure in pump, lines or hoses.

If work will be discontinued for more than 45 minutes flush all equipment as per manufacturers' instructions. Blow all solvents from the lines before beginning application.

STORAGE, HANDLING & SAFETY

EPOX-Z, like most epoxy compounds, possesses the ability to cause skin and eye irritation upon contact. Certain individuals may also develop an allergic reaction after exposure (skin contact, inhalation or vapors, etc.) which may manifest itself in a number of ways including skin rashes and an itching sensation. Handling this product at elevated temperatures may also generate vapors irritating to the respiratory system. Always read material safety data sheets before using these or any other chemicals.

Consult MSDS for more info

Store product in a dry and clean environment in original unopened containers. Required storage temperature is between 50° F and 80°F.

WARRANTY AND DISCLAIMER: To the best of our knowledge, the technical data contained herein is true and accurate at the date of issuance and is subject to change without prior notice. User must contact EPOX-Z to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. Liability, if any, is limited to EPOX-Z published warranty information.