SPI COATINGS

PROVEN PERFORMANCE • REAL WORLD SOLUTIONS

INSULATION AND CORROSION SPECIALISTS

SUNSHIELD

Application Instructions (5/8/15)

SUNSHIELD is a water-borne combination of a high-performance duo of elastomeric acrylic and resin additives, which produces a tough, yet flexible coating film. It combines four different ceramics that provide both heat reflectivity and insulating properties. SUNSHIELD is a flexible membrane with low permeability that can greatly reduce expansion and contraction of a roof. SUNSHIELD's blend of resin additives produce a flexible coating membrane that can be applied directly to fabric. It also prevents corrosion and surface deterioration. Although durable and offering solar heat blocking performance, SUNSHIELD does not give the same benefits as SUPER THERM®.

SURFACE PREPARATION

Surface must be clean from oil, tar, rust, grease, salts, and films.

1) Use general degreaser if needed.
2) Clean surface using TSP (tri-sodium-phosphate) or a citrus cleaner to release dirt and degreaser residue.
3) Pressure-wash if possible @ 3500 psi.
4) Salt contamination on a surface can come as a result of salt water, fertilizers, and car exhaust. Use Chlor*Rid or equivalent to decontaminate surface if salts are present. Acceptable levels: Nitrates: 5-10 mcg/cm², Sulfates: 5-10 mcg/cm², Chlorides: 3-5 mcg/cm²

Surface must be completely dry before applying.

1) SUNSHIELD must be applied during proper temperatures (below) and the prescribed overcoat window of the coating over which it will be applied.
2) Maximum Surface Temperature when applying: 150°F (65°C)
3) Minimum Surface Temperature when applying: 40°F (5°C)
4) Maximum Surface Temperature after curing: 300°F (149°C)

NOTE:

1) Use Rust Grip® as a primer when needed.
2) If pack rust or mill scale exist, it must be removed by grit blast, power tool or needle gun. Once removed, begin with Step 1 (power wash).

1) Harsh environments where color is desired, or where pooling may occur: SUNSHIELD should be over-coated with ENAMO GRIP (solvent based) over metal or concrete, or SP SEAL COAT over flexible surfaces (foam, tar, rubber and wood).

MIXING

SUNSHIELD should be mechanically mixed or mixed by hand for three minutes, then applied.

APPLICATION

SUNSHIELD can be applied by brush, roller or spray; however, the preferred method is by air or airless sprayer. It should never be applied directly over rust, nor should it ever be diluted or thinned.

1) If application is by brush, use a soft bristle brush.
2) If application is by roller, use a 1/4 inch nap roller.
3) If application is by spray, use a standard airless sprayer (2 gallons/minute at 3,300 psi.) with a .029-.033 tip.

- ***NOTE***: The number of applications and the thickness of each should be in accordance with the job specifications.
- ***NOTE:*** All filters should be removed from both the gun handle and spray machine prior to application, as they will trap the ceramics.
- ***NOTE:*** Temperatures must always be a minimum of 5 degrees F. above the dew point during application.
- ***NOTE:*** If SUNSHIELD is applied during a period of extremely high humidity or if there is rain soon after the application, bubbles may appear on the surface. Do not puncture these bubbles. This is normal and the coating will continue to cure with no effect on the performance or appearance of the coating. Bubbles will dry down tight and disappear without a trace or imprint.

MINIMUM SPREAD RATES (mil thickness)

SUNSHIELD will be applied at no less than a total of 19 mils wet (450 microns)/10 mils dry (250 microns) for each application. Spread Rate is 80 sq ft per gallon. (7.4 sq meter per gallon)

CURE TIME

1) 30-60 minutes to tack free at 70°F (21°C)
2) Overcoat: 2 hours when 70°F (21°C) at 40% Relative Humidity
3) Full Cure: 21 days

TEMPERATURE

1) Apply between 50°F. and 100°F.
2) Store between 40°F. and 100°F.

CLEAN-UP EQUIPMENT

1) After completion, spray system should be cleaned with soap and water.
2) After completion, brushes and rollers can be cleaned with soap and water. stored and reused.