



SUNSHIELD

Technical Data Sheet (02/17/09)

DESCRIPTION

SUNSHIELD is a water-borne combination of high-performance aliphatic urethanes, elastomeric acrylics, and resin additives which produces a tough, yet flexible coating film. Designed for performance and durability, SUNSHIELD contains 4 unique ceramics to block up to Solar Heat entering a structure due to Visual Light, Ultra Violet (UV), and Infrared (IR). SUNSHIELD is a flexible membrane with low permeability that can greatly reduce expansion and contraction of a roof. It also prevents corrosion and surface deterioration. Although durable and offering limited Solar blocking performance, SUNSHIELD does not give the same benefits as SUPER THERM®.

TYPICAL USES

- As a one-coat roofing insulation system on exteriors to block the migration of Solar Heat gain.
- As an insulation system for the exterior of vertical walls against Solar Heat.
- As insulation for transportation vehicles, refrigerated containers, reefer trucks, and railroad cars when applied to the exterior.
- As a "Green" coating where a low VOC and durability is needed.
- As a system over metal, concrete, masonry, and wood to stop moisture penetration and corrosion.
- Ability to resist dirt, mold, mildew, and pollution to increase longevity, and reduce surface maintenance.
- As a topcoat over metal roofs, or an intermediate coat on flat roofs.

APPLICATION METHODS

SUNSHIELD can be applied to metal, concrete, masonry and wood. The application can be spray, brush or roller. For specific instructions on surface preparation, mixing and application, please refer to the SPI's application instructions for SUNSHIELD. This coating should never be applied at less than 16 mils wet (400 microns), 10 mils dry (250 microns), each coat.

TESTS AND CERTIFICATIONS (partial list)

USDA Approved

FIELD TESTING has proven:

1. The coating provides a water-tight barrier
2. The coating can withstand large temperature variances without peeling, cracking or loss of adhesion
3. The coating is resistant to mold and mildew
4. Designed for flexibility and elongation, the coating is designed to move with the substrate, and to withstand the rigors of expansion and contraction
5. The ceramics contained have sound dampening qualities.

PHYSICAL DATA

- ◆ Solids: By weight 60.16% / By Volume: 65.16%
- ◆ 30-60 minutes to tack free at 70F (21C)
- ◆ Overcoat: 2 hours when 70F (21C) at 40% relative humidity
- ◆ Full Cure: 21 days
- ◆ Lead and chromate free
- ◆ Cures by evaporation
- ◆ Weight: 11.4 lbs. per gallon
- ◆ Vehicle Type: Urethane/Acrylic blend
- ◆ Shelf Life: Up to 3 years if unopened under appropriate storage conditions (See MSDS).
- ◆ VOC Level: 21 grams/liter
- ◆ Viscosity: 105 – 110 KU;
- ◆ pH: 8.5 – 9.0
- ◆ Maximum Surface Temperature when applying: 150 F (65C)
- ◆ Minimum Surface Temperature when applying: 40F (5C)
- ◆ Maximum Surface Temperature after curing: 300F (149C)

SAFETY PRECAUTIONS

Do not use this product without first taking all appropriate safety measures to prevent property damage and injuries. These measures may include, without limitation: proper ventilation, use of proper lamps, wearing of protective clothing and masks, tenting, and proper separation of application areas. For more specific safety procedures, please refer to the SUNSHIELD Material Safety Data Sheet. **KEEP OUT OF REACH OF CHILDREN.**

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