

DESCRIPTION:

SUPERTHERM is a unique one-part combination of high-performance aliphatic urethanes, elastomeric acrylics and resin additives in a water-borne formula. SUPER THERM was built to meet the standards of industrial uses which required a tough, yet flexible surface against the stresses of expansion and contraction. Unlike other "reflective" coatings on the market that have one ceramic to reflect heat, SUPER THERM has four different ceramics--two are reflective, one acts as a dead air space between the coating surface and the substrate, and the fourth blocks 99.5% of infrared rays.

TYPICAL USES:

- * As a one-coat insulation system for peaked roofs
- * As a topcoat over RUST GRIP on metal roofs, or as an intermediate coat on flat roofs
- * As an insulator for transportation containers, refrigerated containers and railroad cars
- * As insulation and to stop condensation on HVAC systems
- * As a cover on commercial and residential air conditioners to increase efficiency and stop condensation
- * As an intermediate coat on above-ground water and petroleum storage systems

APPLICATION METHODS:

SUPER THERM can be applied to metal, concrete, masonry and wood. The application can be by spray, brush or roller. For specific instructions on surface preparation, mixing and application, please refer to the SPI's application instructions for SUPER THERM.

PHYSICAL DATA:

- * Solids: By weight 63.6% / by volume 68%.
- * Film Thickness: On all substrates SUPER THERM should be applied at 16 mils wet / 10 mils dry. Under no circumstances should SUPER THERM be applied at less than 13 mils wet.
- * Dry Time: One hour to touch at 70F. degrees and bright sun / Overcoat window is two hours or longer at 70F. degrees / Fully cures in twenty one days.
- * Lead and chromate free.
- * Cures by evaporation with no co-solvents present.
- * Weight: 11.88 lbs. per gallon.
- * Shelf Life: One year+.
- * VOC Level: 67 grams/liter.
- * pH: 8.5 - 9.0.
- * Viscosity: 105-110 KU.
- * Contains silver citrate to protect against mold, mildew and other pathogens.

TESTS AND CERTIFICATIONS:

- * USDA approved for use in food service and preparation

- * Marine approvals for salt water/maritime use:
 - DNV (Det Norske Veritas)
 - US Coast Guard
 - ABS (American Bureau of Shipping)
 - IMO (International Maritime Organization)
- * Energy Star Rating - approved and accepted as an energy partner for energy savings
- * Factory Mutual approval
- * BOCA (Building Officials Code Administration) approved
- * ICC (international Code Council) approved
- * UL (Underwriters Laboratory) approved
- * State of California Cool Roof Program approved and listed
- * Flame Spread Test (ASTM E8489 / UL 723):
Flame = 0 / Smoke = 0
- * Flexibility (ASTM E1737): 180 degree bend test - passed
- * Adhesion (ASTM B3359): rated a 5B
- * Perm Rating (ASTM E96): 8.8% avg
- * Tensile Properties (ASTM D412): 444 psi
- * Abrasion Resistance (ASTM D4060): 3,000 cycles
- * Sound Reduction: In tests conducted at the University of North Carolina and Stoughton Trailers, sound was reduced by 68%

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.

KEEP OUT OF REACH OF CHILDREN.

For more specific safety procedures, please refer to the SUPER THERM Material Safety Data Sheet.

LIMITATION OF LIABILITY: The information contained in this data sheet is based upon tests that we believe to be accurate and is intended for guidance only. All recommendations or suggestions relating to the use of the products made by SPI, whether in technical documentation, or in response to a specific enquiry, or otherwise, are based on data which to the best of our knowledge is reliable. The products and information are designed for users having the requisite knowledge and industrial skills, and the end-user has the responsibility to determine the suitability of the product for its intended use.

SPI has no control over either the quality of condition of the substrate, or the many factors affecting the use and application of the product. Therefore, SPI does not accept any liability arising from loss, injury, or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise).

The information contained in this data sheet is subject to modification as a result of practical experience and continuous product development. This data sheet replaces and annuls all previous issues and the user has the responsibility to ensure that this sheet is current prior to using the product.