

TECHNICAL DATA SHEET

DESCRIPTION

Solarshield roof paint is a water-borne combination of high-performance duo of elastomeric acrylics and resin additives, which produces a tough, yet flexible coating film. It combines four different ceramics that provide both heat reflectivity and heat-blocking properties. Solarshield roof paint is a flexible membrane with low permeability that can greatly reduce expansion and contraction of a roof. Anti Heating & Water Proofing blend of resin additives produce a flexible coating membrane that can be applied directly to any surface. It also prevents corrosion and surface deterioration.

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 (21 grams/ltr).
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

Solarshield roof paint 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 Ultraepoxy's application instructions for Anti Heating & Water Proofing. This coating should never be applied at less than a total of 19 mils wet (450 microns), 10 mils dry (250 microns).

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.

SURFACE PREPARATION

Ensure that all surfaces are dry, clean, and free of oil, grease, dust, laitance and in accordance with above SUBSTRATE CONDITIONS.

SAFETY PRECAUTIONS

Ensure good ventilation during application and curing process. Keep out of reach from children. Do not use Roof Shield on roofs that collect rain water for drinking purposes. In case of skin contact, wash with soap and water. In case of eye contact rinse immediately with running water and seek medical advice if eyes are irritated. If swallowed, do not induce vomiting and seek medical attention. Always wear the appropriate protective clothing during product handling and application. Refer to Material Safety Data Sheet on our website for more detailed safety information.

CAUTION

Avoid scratching or gouging the surface. All floor coatings will scratch if heavy or sharp objects are dragged across the surface. Do not drop heavy or pointed items on the floor as this may cause chipping or concrete pop-outs in the case of a weak substrate cap. Rubber tires can permanently stain the floor coating from plasticizer migration. In warehouse & industrial settings, the use of non-marking tires is highly recommended to prevent discoloration. Rubber burns from quick stops and starts can heat the coating to its softening temperature, causing permanent marking.

IMPARTANT

Do not apply Solarshield roof paint in inclement weather. Allow sufficient drying time before dewfall. Do not apply to a surface in excess of 104°F(40°C)

STORAGE

Materials should be stored indoors between 60°F (16°C) and 90°F (32°C)

DISPOSAL

Dispose in accordance with federal, state and local regulations.

SDS

PLEASE SEE SAFETY DATA SHEET (SDS) FOR SAFETY AND PRECAUTIONS. USE PRODUCT AS DIRECTED. KEEP OUT OF THE REACH OF CHILDREN

Solarshield Roof Paint

Technical Data Sheet



APPLY Solarshield roof paint

Sprayed polyurethane foam, gravel, roofs over cathedral ceilings, as well as roofs with severe ponding problems are higher risk applications and should be discussed with us before proceeding. Product warranties may be limited or voided in these situations. Carefully examine the roof membrane (surface material) for cracks, tears, blisters, evidence of ponding, exposed foam, and open seams. If already coated, evaluate the condition of the coating. Pay particular attention to areas around roof penetrations (vents, skylights, pipes, etc), ponding areas, cracks in parapet walls, and the attachment of roof membranes to parapet walls. Roofs should be in good condition to warrant coating.

Serious roofing problems should always be referred to a qualified roofer for repair before attempting any coating. Coatings cannot save worn-out, dried-out, or structurally weak roofs.

Measure the length and width of the roof to determine the size in square feet. Be sure to allow for parapet walls, garage and porch roofs to be covered. (NOTE: The roof size is not the same as the living space.)

Purchase all necessary materials and tools in advance. Nothing is more frustrating than climbing off a roof in the middle of a job to buy more material.

A coating job can often be completed over a two-day weekend in warm weather. Dry, sunny weather over 70°F is ideal. Avoid periods of very cold nights when dew and frost can be a problem.

Do not coat roofs that may have moisture trapped below the surface. Always allow each coat to cure before applying the next coat.

In extremely hot weather, start as early as possible and get off the roof before temperatures become too high.

On extremely hot surfaces (dark roofs or very hot days), apply top coatings before roof temperatures are too high (causing drying on contact).

3 STEP USE Recommend method

1 step - Acrylic primer (apply 1-2times thin coats)

*Consult Ultraepoxy before using primer on any material.

2 step - Solarshield roof paint (3times thin coat)

3 step - Urethane clear top coat (apply 1-2times thin coats)

*If you apply it thickly at once, it may take a long time to harden or cause problems, so apply it thinly several times.

TECHNICAL DATA

Solids	68-70%
Tack free at 70°F (21°C)	30-60 minutes
Overcoat	2 hours when 70°F (21°C) at 40% relative humidity
Full Cure	7 days (Cures by evaporation)
Weight	9.17 lbs. per gallon
Vehicle Type	Acrylic blend
VOC	nill
Viscosity	10,000 (± 1,000)
pH	6.8-7.0
Coverage Rate	100 sq.ft./gallon; 10 dry mils
Maximum Surface Temperature when applying: 150°F(65°C) Minimum Surface Temperature when applying: 40°F(5°C) Maximum Surface Temperature after curing: 300°F(149°C)	

WARRANTY

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