

TECHNICAL DATA SHEET FOR

SOLAREFLECT COOLROOF

- DESCRIPTION** : SolaReflect CoolRoof is a highly durable water-based acrylic roof coating designed to protect unglazed clay roof tiles, concrete, and masonry substrates. It provides a smooth low sheen finish that is suitable for both new and old roofs.
- Incorporated with SolaReflect Technology, SolaReflect CoolRoof reflects a large amount of solar energy from the sun and able to reduce the surface temperature by up to 5°C*. This special property can lower heat build-up and subsequently decreases the energy needed for air-conditioning.
- *Temperature reduction varies from colour to colour
- TYPE** : 100% acrylic
- COLOUR** : Standard color
- FINISH** : Low sheen
- USES** : Premium roof coating as a protective coating over properly prepared roof surfaces such as unglazed clay roof tiles, masonry, concrete and metal roof. It is not recommended for glazed roof tiles.
- FEATURES** :
- Solar reflective
 - Excellent weather resistance
 - Excellent resistance to fungal and algal growth
 - Excellent alkaline resistance
 - Easy to apply
 - Environmental friendly with low VOC
 - Non-toxic and lead, mercury and heavy metals free

APPLICATION DATA

- METHOD** : Roller, brush or conventional spray
- THEORETICAL COVERAGE** : Approx. 12 m² / litre depending on surface porosity
- DILUTION** : No dilution is necessary for best performance

SPRAY APPLICATION	:		<u>Air</u>	<u>Airless</u>
		Delivery Pressure	3 ~ 4 Kg/cm ²	140 – 200 kg/cm ²
		Tip Size	1.3mm	0.017” – 0.023”
		Spray Angle	50 - 70°	50 - 70°
		Dilution with water	10 ~ 20%	10% max

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- SURFACE PREPARATION** : Inspect roof conditions, where required, replace badly rusted metal or damage roof tile. For metal roofing, remove oil and grease or any forms of contaminants by solvent cleaning. Sanding should be done before any painting to improve adhesion. For Ferrous metal roofing with mill scale or rust, the substrate should be wire brushed or abrasive blasted and appropriately primed before any paint application. Ensure surface is clean, dry and stable using the following suggested surface treatments.
- **Moisture:** There must not be any water residue on the surface of the substrate. Moisture must be <4% (Sovereign moisture master) before application
 - **Unstable matter:** Remove loose bonding film, dirt, peeling paint, etc by high-pressure water jet wash or mechanical means such as power brush or scraper, whichever is suitable
 - **Contaminants:** Remove dust and foreign matter by cleaning with damp cloth. Remove oil or grease using solvent or mild detergent. Allow surface to dry
 - **Fungus and Algae:** Wash the affected area to remove unstable matters and micro-organisms. Apply Anti-Fungus Solution and leave on for at least 2 hours
 - **Hairline cracks:** Fill cracks with suitable exterior grade water-resistant putty or filler
- DRYING TIME** : Surface Dry - 30 minutes at 30 °C
Hard Dry - 2 hours at 30 °C
- OVERCOATING TIME** : 2 hours based on normal conditions
- RECOMMENDED PAINTING SYSTEM** : **New surfaces**
Ferrous metal substrates:
-1 coat of Crystalux A/C Primer
-2 coats of Solareflect CoolRoof
- Non-Ferrous metal substrates:**
-1 coat of Hi-Vinyl 1102 Etching primer
-1 coat of Crystalux A/C Primer
-2 coats of Solareflect CoolRoof
- Mineral substrates (Roof tile, masonry or cement roof)**
-1 coat of Aqua Primer Sealer Undercoat
-2 coats of Solareflect CoolRoof

SOLAREFLECT COOLROOF**Repaint surfaces:**

Ferrous and non-ferrous metal roofing with underlying rusting issue shall be treated accordance to recommended surface preparation as above. Treated bare ferrous metal shall spot prime with 1 coat of Crystalux A/C Primer and treated bare non-ferrous metal shall spot prime with 1 coat of Hi-Vinyl 1102 Etching primer before repaint with the following painting system

Ferrous metal substrates:

- 1 coat of Crystalux A/C Primer
- 2 coats of Solareflect CoolRoof

Non-Ferrous metal substrates:

- 1 coat of Crystalux A/C Primer
- 2 coats of Solareflect CoolRoof

Mineral substrates (Roof tile, masonry or cement roof)

- 1 coat of Aqua Primer Sealer Undercoat
- 2 coats of Solareflect CoolRoof

CLEANING : All equipments should be cleaned with water immediately after use

GENERAL INFORMATION

SOLID CONTENT : 53.0 ± 2.0 % by weight (based on white)

DENSITY : 1.26 ± 2.0 % kg / litre (based on white)

PACKING : 20 litres

STORAGE : Store in a tightly sealed container in a cool, dry place

SHELF LIFE : Up to 24 months in a tightly sealed container

PRECAUTION : Ensure good ventilation during application and drying of paint. Avoid direct contact with sensitive skin. Use appropriate personal protective equipment

Refer to the product Safety Data Sheet for more information

The information given is intended to give a description of the product performance under specific test conditions. Nevertheless, we cannot assume any responsibility for the use of it since circumstances under which the products are applied in practice are subjected to many variations. We reserve the right to alter the given data without notice.

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