

SOLAROOF
Updated Aug'22


Solarroof is specially formulated for roof tiles painting and repainting, and with innovative Sunblock Technology helps to reflect heat and reduce surface temperature up to 5°C, which plays a role in helping heat resistance on roof tiles caused by UV rays, leaving energy saving and gives you a more comfortable indoor feeling.

Product Features:

- Heat resistance with Solareflect technology
- Reduces surface temperature up to 5°C
- Fungus & algae resistance
- Dirt resistance
- Long lasting
- Low odour & low VOC

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Water based	Exterior	Gloss	Concrete tile roof, Metal / cladding roof	5 Litres, 20 Litres

Composition

Pigment	: Mainly Titanium Dioxide, Iron Oxide, Carbon Black, Organic Pigments and Mineral Extender
Binder	: Pure Acrylic
Thinner	: Water

Technical Data

Drying Time	: Touch Dry : 30 minutes (Dependent on temperature and humidity)
	: Hard Dry : 3 hours (Dependent on temperature and humidity)
Recoating Time	: 4 hours (Dependent on temperature and humidity)
Dry Film Thickness	: Around 30 µm per coat (based on substrate condition)
No. of Coats	: 2 coats
Theoretical Coverage	: 8 – 10 m ² per litre per coat (Actual coverage is dependent on substrate condition, application method, application condition and finishing appearance)
Volume Solid	: ~ 34%
Shelf Life	: Up to 36 months in tight sealed container

Application Method

Brush / Roller	: Dilute the paint with not more than 5% of water. Preferable not dilute for best performance.
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Recommended Coating System
Concrete Tile Roof

Sealer / Primer	: Acrylic 5170 Wall Sealer / Roof Primer	: 1 Coat
Top Coat	: Solarroof	: 2 Coats

Metal / Cladding Roof

Sealer / Primer	: Hydro Wood & Metal Primer / Roof Primer	: 1 Coat
Top Coat	: Solarroof	: 2 coats

Surface Preparation

Remove all loose, defective paint or powdery residues, loose chalk, dust, fungus, algae and foreign matter. Treat any areas affected by fungus growth with Fungicidal Wash Solution. Repair cracks, uneven surfaces with suitable exterior grade fillers. Smoothen the filler areas with sand paper. Surfaces to be painted must be cleaned thoroughly and dry, it must be free from dirt, grease and other foreign matters. Allow all surfaces to dry completely prior to painting. Avoid painting when the moisture content and alkalinity of the walls are still high. (Recommended painting specification requires the moisture

content of the walls to be below 16% measured by protimeter and alkalinity of the walls to be below pH9.) Spot prime with Nippon Sealer.

Cleaning

Clean up equipment with water immediately after use.

Safety Precautions

- Keep container tightly closed and keep out of reach children or away from food and drink.
- Ensure good ventilation during application and drying.
- When applying paint, it is advisable to wear eye protection.
- In case of contact with eye, rinse with plenty of water immediately and seek medical advice.
- Remove splashes from skin by using soap or water.
- Paint must always be stored in a cool place.
- When transporting paint, care must be taken. Always keep container in a secure upright position.
- Dispose any paint waste in accordance with the appropriate Environment Quality Regulations.

Note

* Theoretical Coverage is based on a mathematical formula

$$\left[\frac{\text{Volume Solid \%} \times 10}{\text{Dry Film Thickness}} \right] = \text{m}^2/\text{lit}/\text{coat}$$

and does not consider LOSS FACTORS.

Variables like porosity of substrate, application method, dilution ratio, dry film thickness, opacity and so on will affect the loss factor and can vary from 30% - 50% or even more.

The above information is given to the best of our knowledge based on laboratory tests and practical experience.

However, since we cannot anticipate or control the many conditions under which our products may be used, we can only guarantee the quality of the product itself.

We reserve the right to alter the given without prior notice.