

## TECHNICAL DATA SHEET FOR

**SOLAREFLECT ROOF-SEAL WATERPROOFING****DESCRIPTION**

Solareflect Roof-Seal Waterproofing is a low VOC ready-to-use waterbased acrylic waterproofing membrane. It is made with special blends of polymer, fillers and additives to provide excellent UV resistance while providing long term waterproofing protection for the roof. Besides that, it also has solar reflective properties reflecting large amount of solar energy from the sun. Thus, lowering heat build-up and subsequently keeping the building cool.

<b>TYPE</b>	:	Water-based Acrylic
<b>COLOUR</b>	:	White and selected colours
<b>FINISH</b>	:	Matt
<b>USES</b>	:	Waterproofing of concrete & metal roof and clay roof tiles
<b>FEATURES</b>	:	<ul style="list-style-type: none"><li>• Single component</li><li>• Ready to use</li><li>• Solar reflective</li><li>• Good fungal, algae and mould resistance</li><li>• Good flexibility and able to bridge cracks</li><li>• Water-based and non toxic</li><li>• Good UV resistance</li><li>• Environmental friendly with low VOC</li><li>• Complies with SGBC requirement</li><li>• Non-toxic and lead, mercury and heavy metals free</li></ul>

**APPLICATION DATA**

<b>METHOD</b>	:	Brush or roller
<b>THEORETICAL COVERAGE</b>	:	1.8 m <sup>2</sup> / litre (based on 300µm DFT)
<b>DILUTION</b>	:	No dilution is necessary for best performance
<b>SURFACE PREPARATION</b>	:	Ensure surface is clean, dry and stable using the following suggested surface treatments: <ul style="list-style-type: none"><li>• <b>Moisture:</b> There must not be any water residue on the surface of the substrate. Moisture must be &lt;4% (Sovereign moisture master) before application</li><li>• <b>Unstable matter :</b>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</li></ul>

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- **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
- **Metal roof :** Substrate should be wire brushed or abrasive blasted and appropriately primed before application

**DRYING TIME** : Hard Dry - 1 hour max at 25°C, 65% RH

**OVERCOATING TIME** : 2 hours minimum based on normal conditions

**RECOMMENDED PAINTING SYSTEM** : **For Concrete Roof**  
 Primer : 1 coat of Roof-Seal Primer  
 1st layer : 1<sup>st</sup> coat of Solareflect Roof-Seal Waterproofing  
 2<sup>nd</sup> layer : Lay fibremesh while the 1<sup>st</sup> coat of Solareflect Roof-Seal Waterproofing is still wet  
 3<sup>rd</sup> layer : 2<sup>nd</sup> coat of Solareflect Roof-Seal Waterproofing  
 4<sup>th</sup> layer : Final coat of Solareflect Roof-Seal Waterproofing

**For Metal Roof**  
 Primer : 1 coat of Aqua Primer Sealer Undercoat  
 1st layer : 1<sup>st</sup> coat of Solareflect Roof-Seal Waterproofing  
 2<sup>nd</sup> layer : Lay fibremesh while the 1<sup>st</sup> coat of Solareflect Roof-Seal Waterproofing is still wet (where necessary)  
 3<sup>rd</sup> layer : 2<sup>nd</sup> coat of Solareflect Roof-Seal Waterproofing  
 4<sup>th</sup> layer : Final coat of Solareflect Roof-Seal Waterproofing

**CLEANING** : All equipment should be cleaned with water immediately after use.

**SOLAREFLECT ROOF-SEAL WATERPROOFING****PERFORMANCE DATA****(based on white colour)**

Test Items	Test Methods	Results
Elongation at break	ASTM D412 : 1992	>150%
Tensile Strength (without fibremesh)	ASTM D412 : 1992	>3MPa
Tensile Strength (with fibremesh)	ASTM D412 : 1992	>30 MPa
Adhesion Strength	ASTM D4541	>1 MPa
Adhesion Strength (3 days water immersion)	ASTM D4541	>1 MPa
Shore A Hardness	ASTM D2240	79
Crack Bridging	ASTM C836	- No crack at 2mm width - No crack after 10 cycles of opening and closing 1mm width
Water vapor transmission	ASTM E96	4.99 g/24h/m <sup>2</sup>
QUV Accelerated Weathering (1000 cycles)	ASTM G154 (Cycle 1)	No defects (Grey scale 2.8)

**GENERAL INFORMATION****SOLID CONTENT** : 66 ± 2% (Based on White)**SPECIFIC GRAVITY** : 1.34 ± 2%**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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