

## TECHNICAL DATA SHEET FOR

**SOLAREFLECT**

- DESCRIPTION** : SolaReflect is an elastomeric cool paint system that reflects a large amount of solar energy from the sun. It can reflect more solar energy and reduces 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.  
The SolaReflect technology enables us to offer a wide range of colours for design and decoration, now houses don't have to be white to be cool!
- \*Temperature reduction varies from colour to colour
- TYPE** : Elastomeric acrylic-based coating system formulated with SolaReflect pigment, for exterior use.
- COLOUR** : As per colour card
- FINISH** : Low Sheen
- USES** :
- Premium high performance coating system for use on external masonry wall surfaces such as cement, plastered wall and brickwork.
  - Warehouse, factory and cold storage room.
- FEATURES** :
- Energy saving coating with high solar energy reflection, less heat build-up results in lesser power consumption for air-conditioning
  - Excellent weather resistance
  - Long lasting colours
  - Excellent dirt pick-up resistance
  - Elastic and flexible with good performance in tensile strength that are able to cover or prevent hairline cracks
  - Excellent washability
  - Excellent resistance to alkali and efflorescence
  - Low water absorption
  - Breathable film with high water vapour permeability
  - Anti-carbonation property
  - Excellent resistance to fungal and algal growth
  - Non-toxic, does not contain lead, mercury and heavy metals
  - Environmentally friendly paint certified under the Singapore Green Building Product Certification Scheme

## SOLAREFLECT

### APPLICATION DATA

<b>METHOD</b>	:	Brush, roller, airless spray or air spray															
<b>THEORETICAL COVERAGE</b>	:	10–12 m <sup>2</sup> /litre (based on 40 microns DFT)															
<b>DILUTION</b>	:	No dilution is necessary for best performance															
<b>SPRAY APPLICATION</b>	:	<table border="0"> <thead> <tr> <th></th> <th><u>Air</u></th> <th><u>Airless</u></th> </tr> </thead> <tbody> <tr> <td>Delivery Pressure</td> <td>3 ~ 4 Kg/cm<sup>2</sup></td> <td>140 – 200 kg/cm<sup>2</sup></td> </tr> <tr> <td>Tip Size</td> <td>1.3mm</td> <td>0.017” – 0.023”</td> </tr> <tr> <td>Spray Angle</td> <td>50 - 70°</td> <td>50 - 70°</td> </tr> <tr> <td>Dilution with water</td> <td>10 ~ 20%</td> <td>10% max</td> </tr> </tbody> </table>		<u>Air</u>	<u>Airless</u>	Delivery Pressure	3 ~ 4 Kg/cm <sup>2</sup>	140 – 200 kg/cm <sup>2</sup>	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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<b>REQUIRED THICKNESS</b>	:	40 to 50 microns (Dry Film Thickness per coat)															
<b>SURFACE PREPARATION</b>	:	<p>Ensure surface is clean, dry and stable using the following suggested surface treatments:</p> <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> <li>• <b>Contaminants:</b> Remove dust and foreign matter by cleaning with damp cloth. Remove oil or grease using solvent or mild detergent. Allow surface to dry</li> <li>• <b>Fungus and Algae:</b> Wash the affected area to remove unstable matters and micro-organisms. Apply Anti-Fungus Solution and leave on for at least 2 hours</li> <li>• <b>Hairline cracks :</b> Fill cracks with suitable exterior grade water-resistant putty or filler</li> </ul>															
<b>DRYING TIME</b>	:	<p>Surface Dry - 30 minutes at 30°C                      Hard Dry - 2 Hours at 30°C</p>															
<b>OVERCOATING TIME</b>	:	2 hours based on normal conditions															
<b>RECOMMENDED PAINTING SYSTEM</b>	:	<ul style="list-style-type: none"> <li>• 1 coat SolaReflect Sealer-Primer White (40-50 microns DFT)</li> <li>• 2 coats SolaReflect (40-50 microns DFT per coat)</li> </ul> <p>Powdery substrate is recommended to apply Vinilex 5170 oil-based sealer follow by the above painting system</p>															
<b>CLEANING</b>	:	All equipment should be cleaned with water immediately after use.															

**GENERAL INFORMATION**

<b>SOLID CONTENT</b>	:	61 ± 2% by weight (based on white colour)
<b>SPECIFIC GRAVITY</b>	:	1.38 ± 2% kg/litre (based on white colour)
<b>PACKING</b>	:	20 litres
<b>STORAGE</b>	:	Store in a tightly sealed container below 30°C.
<b>SHELF LIFE</b>	:	Up to 24 months in a tightly sealed container.
<b>PRECAUTION</b>	:	Avoid painting when the temperature is below 10°C or when the humidity is over 85%. Ensure adequate protection and avoid direct contact on sensitive skin, eye, etc. 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.

<b>Enquiries / Contact Details</b>	:	<b>Customer Service</b> <b>6265 5355 (Main Line)</b> <b>6264 1603 (Fax)</b> <b><a href="http://www.nipponpaint.com.sg">www.nipponpaint.com.sg</a></b>
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