

## TECHNICAL DATA SHEET FOR

**SOLAREFLECT COOLFLOOR TOPCOAT**

- DESCRIPTION** : SolaReflect CoolFloor Topcoat is a 2 component water-based Acrylic Epoxy Hybrid (AEH) coating, designed to enhance the appearance and protect the surfaces from heat build-up. It is suited for asphalt, pavement and concrete floor. Unlike conventional epoxy coating, this innovative hybrid technology offers excellent weathering resistance, high hardness, abrasion and chemical resistance. When paired with the SolaReflect Cool Paint system, it is able to improve thermal comfort by reflecting large amount of solar energy effectively, while keeping the surrounding areas cool. By incorporating with carefully selected aggregates, SolaReflect CoolFloor Top Coat is able to provide superior slip and skid resistance, making it safe for foot and light to medium vehicle traffic.
- TYPE** : 2 component water-based Acrylic Epoxy Hybrid (AEH) topcoat
- COLOUR** : SCF 01 Platinum Grey  
SCF 02 Grass Green  
SCF 03 Fresh Blue  
SCF 04 Oakleaf Brown
- FINISH** : Semi-gloss
- USES** : For primed asphalt, pavement and concrete floor, such as walkways, pedestrian areas, park connectors, car parks, schools, playgrounds, cycle lanes, bus lanes, driveways, commercial floor and laboratories.
- FEATURES** :
- High solar energy reflection, less heat build-up results in improved thermal comfort
  - Good resistance to aggressive and severe weather conditions
  - Long lasting colours
  - Durable, high hardness and good abrasion resistance
  - Low water absorption
  - Water vapour permeable
  - Chemical and corrosion resistance properties
  - Long pot life with excellent application workability
  - Water- based formulation that is safe, easy to apply and fast drying
  - Non-toxic, does not contain lead, mercury and heavy metals
  - Low odour
  - Environmentally friendly paint certified under the Singapore Green Building Product Certification Scheme

**APPLICATION DATA**

- METHOD** : Roller or brush
- THEORETICAL COVERAGE** : On concrete: 0.1 ~ 0.3 Kg / m<sup>2</sup> at dry film thickness of 50 µm per coat  
On asphalt & pavement: 0.2 ~ 0.4 Kg / m<sup>2</sup> at dry film thickness of 50 µm per coat

**SOLAREFLECT COOLFLOOR TOPCOAT**

**DILUTION** : No dilution is necessary for best performance

**MIXING RATIO** : Part A : Part B = 1:1 (by weight)

**POT LIFE** : 4 Hrs at 25 °C

Important note: Do not use mixed materials beyond the recommended pot-life of 4 hours. As Part B is sensitive to the weather, only open the Hardener (Part B) portion when required for mixing and close tightly after use

**SURFACE PREPARATION** : Ensure surface is clean, dry and stable. All substrate must primed with SolaReflect CoolFloor Primer after using the following suggested surface treatments:

- **Moisture:** There must not be any water residue on the surface of the substrate. Moisture must be <4% (Tramex 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 grinding, sanding, scarifying, 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
- **Undulated Substrate:** Levelling with FLOOR-PRO 202 SF EPOXY MORTAR or FLOOR-PRO 501 RE-SURFACING SCREED or any compatible levelling compound to achieve the desired flatness

**DIRECTION OF USE** : **Mixing**  
Stir each component separately using an electric drill fitted with a paint mixer or a wing type mixing paddle. Pour the entire contents of Part B into Part A while stirring and mix evenly for approximately 5 minutes until a homogenous tone is achieved.

**Important note: Do not attempt to mix the both component manually, mechanical stirrer must be used to assure the effective mixing**

**OVERCOATING TIME** : 2 hours minimum at 30 °C

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<b>CURING TIME</b>	:	30°C
		Foot traffic (day) 1
		Light traffic (days) 3
		Exposure to chemicals (days) 7

<b>RECOMMENDED PAINTING SYSTEM</b>	:	<ul style="list-style-type: none"> <li>• Primer: 1 coat of SolaReflect CoolFloor Primer</li> <li>• Midcoat: 1 coat of SolaReflect CoolFloor Midcoat</li> <li>• Non-skid aggregate</li> <li>• Topcoat: 2 coats SolaReflect CoolFloor Topcoat</li> </ul>
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<b>CLEANING</b>	:	All equipments should be cleaned with water immediately after use
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**GENERAL INFORMATION**

<b>SOLID CONTENT</b>	:	60.0 ± 2.0 % by weight (mixture, based on white colour)
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<b>SPECIFIC GRAVITY</b>	:	1.17 – 1.37 kg / litre (mixture, based on white colour)
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<b>PACKING</b>	:	<table border="1"> <thead> <tr> <th>Unit</th> <th colspan="2">Part A</th> <th colspan="2">Part B</th> </tr> <tr> <td></td> <th>Weight</th> <th>Container Size</th> <th>Weight</th> <th>Container Size</th> </tr> </thead> <tbody> <tr> <td>20 KG</td> <td>10 KG</td> <td>20 L</td> <td>10 KG</td> <td>20 L</td> </tr> </tbody> </table>	Unit	Part A		Part B			Weight	Container Size	Weight	Container Size	20 KG	10 KG	20 L	10 KG	20 L
Unit	Part A		Part B														
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<b>STORAGE</b>	:	Store in a tightly sealed container in a cool, dry place
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<b>SHELF LIFE</b>	:	<table border="1"> <thead> <tr> <th>Part A</th> <th>Part B</th> </tr> </thead> <tbody> <tr> <td>6 Months</td> <td>12 Months</td> </tr> </tbody> </table>	Part A	Part B	6 Months	12 Months
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<b>PRECAUTION</b>	:	Ensure good ventilation during application and drying of paint. Avoid direct contact with sensitive skin. Use appropriate personal protective equipment
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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 subject 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>www.nipponpaint.com.sg</b>
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