

## 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. Unlike conventional epoxy coating, this innovative hybrid technology offers excellent weathering resistance, high hardness, abrasion and chemical resistance.

When paired with other COOL-TEC cool coating systems, it strongly reflects solar radiation to keep the surface cool and improve thermal comfort.

**TYPE** : 2 component water-based Acrylic Epoxy Hybrid (AEH) topcoat

**COLOUR** : SCF 01 Platinum Grey SCF 04 Oakleaf Brown  
SCF 02 Grass Green SCF 05 Stone Grey  
SCF 03 Fresh Blue SCF 06 Purmei Grey

**FINISH** : Semi-gloss

**USES** : For primed concrete floor, such as walkways, pedestrian areas, park connectors, car parks, schools, playgrounds, commercial floor and laboratories.

*Important note: It is the responsibility of end users to consider the below factors before installation of the flooring system. Use of graded sand aggregate in the coating system is to improve the slip resistance of the flooring materials. However, the slipperiness of the floor finishing is affected by various factors such as the concrete surface profile, installation process, floor maintenance, short and long-term wear and use, surface contaminants (wet or dry) and roughness of the coating finishing/texture profile*

**FEATURES** :

- High solar radiation 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
- High water vapour permeability
- 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 and brush  
Spread the mixed material with a roller and back roll

**SOLAREFLECT COOLFLOOR TOPCOAT**

- THEORETICAL COVERAGE** : On concrete: 0.1 ~ 0.3 Kg / m<sup>2</sup> at dry film thickness of 50 µm per coat
- 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
- Do not use mixed materials beyond the recommended pot-life of 4 hours as it will cause product performance issue
- SURFACE PREPARATION** : Ensure surface is clean, dry and stable. All substrate primed with appropriate 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 alkaline degreaser, detergent or solvent. 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:** Repair with FLOOR-PRO 106 SF EPOXY MORTAR or FLOOR-PRO 506 FIBRE REINFORCED SCREED or any compatible repair materials
- 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.
- Do not attempt to mix the both components manually, mechanical stirrer must be used to assure the effective mixing
- OVERCOATING TIME** : 2 hours minimum at 30 °C

**SOLAREFLECT COOLFLOOR TOPCOAT**

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

<b>RECOMMENDED PAINTING SYSTEM</b>	:	Concrete surfaces
		<ul style="list-style-type: none"> <li>• Primer: 1 coat of FLOOR-PRO 104 Aqua Epoxy 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>

<b>CLEANING</b>	:	All equipment 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
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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><a href="http://www.nipponpaint.com.sg">www.nipponpaint.com.sg</a></b>
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