

## TECHNICAL DATA SHEET FOR

**SOLAREFLECT COOLFLOOR MIDCOAT**

- DESCRIPTION** : SolaReflect CoolFloor Midcoat is a 2-component water-based Acrylic Epoxy Hybrid (AEH) cool coating. It uses COOL-TEC technology to enhance SolaReflect CoolFloor Topcoat's solar reflective properties. Moreover, it is used to create films build that can accept graded sand aggregates to provide slip resistance for concrete floors.
- TYPE** : 2 component water-based Acrylic Epoxy Hybrid (AEH) midcoat
- COLOUR** : White
- FINISH** : Semi-gloss
- USES** : For concrete surfaces to enhance solar reflective properties and as a body coat to accept graded sand aggregates

*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
  - Durable, high hardness and good abrasion resistance
  - Low water absorption and 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
  - 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
- THEORETICAL COVERAGE** : On concrete: 0.2 ~ 0.4 Kg / m<sup>2</sup> at dry film thickness of 50 µm per coat
- THEORETICAL COVERAGE OF NON-SKID AGGREGATE** : Full broadcast on SolaReflect CoolFloor Midcoat: 1.0 – 1.5 Kg / m<sup>2</sup>
- Ensure that the application area is appropriately marked in accordance with the sand broadcast coverage specified as above. This practice is crucial for controlling density and maintaining consistency of the anti-slip finishing.

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- 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. Substrate must 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 CME4 moisture master) before application
  - **Unstable matter:** Remove loose bonding film, dirt, peeling paint, etc by 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
- DRYING TIME** : Touch Dry – 30 mins at 30 °C  
Hard Dry – 2 hours at 30 °C

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- OVERCOATING TIME** : 2 hours minimum at 30 °C
- RECOMMENDED PAINTING SYSTEM** : Concrete surfaces
- Primer: 1 coat of FLOOR-PRO 104 Aqua Epoxy Primer
  - Midcoat: 1 coat of SolaReflect CoolFloor Midcoat
  - Graded sand aggregate
  - Topcoat: 2 coats SolaReflect CoolFloor Topcoat
- CLEANING** : All equipment should be cleaned with water immediately after use

**GENERAL INFORMATION**

- SOLID CONTENT** : 60.0 ± 2.0 % by weight (mixture, based on white colour)
- SPECIFIC GRAVITY** : 1.17 – 1.37 kg / litre (mixture, based on white colour)

**PACKING** :

Unit	Part A		Part B	
	Weight	Container Size	Weight	Container Size
20 KG	10 KG	20 L	10 KG	20 L

- STORAGE** : Store in a tightly sealed container in a cool, dry place

**SHELF LIFE** :

Part A	Part B
6 Months	12 Months

- 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 subject to many variations. We reserve the right to alter the given data without notice.

- Enquiries / Contact Details** :
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