

## TECHNICAL DATA SHEET FOR

**FLOORSHIELD 831 RE-SURFACING SCREED**

**DESCRIPTION** : Floorshield 831 Re-Surfacing Screed is a two component, pre-packed high performance acrylic polymer modified cement based mortar designed for all types of resurfacing, patching and repairing of concrete surface.

Part A comprise of a polymer emulsion developed from the latest latex technology. Part B comprise of a blend of special cement, specially graded fillers and additives.

**TYPE** : 2-components acrylic polymer modified cement based mortar

**USES** :

- As general resurfacing, patching and repairing of concrete surface with high vehicular traffic
- Topping of new and old concrete floors to increase skid and wear resistance
- Resurfacing of worn out concrete floors
- Patching and repairing of damaged concrete surfaces
- Suitable for warehouses, car parks & driveways, bus bays, concrete roads, docks, etc

**FEATURES** :

- Pre-packed – easy to mix and apply
- Excellent waterproofing qualities
- Excellent bond strength to substrates
- Excellent abrasion and impact resistance
- High flexural and tensile strength
- Can be applied onto damp substrates (no free water on substrate)
- Environmentally friendly paint certified under the Singapore Green Building Product Certification Scheme

**APPLICATION DATA**

**METHOD** : Metal Trowel

**THEORETICAL COVERAGE** : 2.1 kg / m<sup>2</sup> per 1mm dry film thickness

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

**SURFACE PREPARATION** : The substrate must be clean and sound, free of dust, loose particles. Laitance, oil, grease must be removed from concrete surfaces by scabbling, grit blasting or other means.

Defective and unsound substrate has to be removed and repaired prior to application of Floorshield 831 Re-Surfacing Screed

Existing substrate expansion joint is to be continued through the new topping and any moving cracks should be isolated with a movement joint.

**FLOORSHIELD 831 RE-SURFACING SCREED**

**DIRECTION OF USE** : **Priming**  
Prime the surface with Floorshield 801 Water Dispersion Primer (approx. 0.2 kg per m<sup>2</sup>). Please refer to the respective product technical data for more information

**Mixing**

Pour Part A (liquid) into a clean container. Slowly add Part B (powder) into the container containing Part A and mix with a low speed mechanical mixer until a homogeneous and lump-free mix is obtained.

**Application**

Immediately after mixing, apply well-mixed Floorshield 831 Re-Surfacing Screed with a metal trowel to the primed surface at thickness of minimum 3 mm to maximum 6 mm in one layer.

For placement of more than 1 layer, sufficient curing time interval of 6-12 hours is recommended for each subsequent layer, after the previous layer completely cures and hardens.

For surfaces requiring anti-skid finish, Floorshield 831 Re-Surfacing Screed can be broom swept to a desired texture approximately 3-5 minutes after application.

**Curing**

Consistent with cementitious toppings, it is essential to allow Floorshield 831 Re-Surfacing Screed to cure naturally in ambient conditions. Where rapid drying conditions exist, such as high temperature, direct sunlight, and strong wind, Floorshield 831 Re-Surfacing Screed should be protected with polythene sheet to reduce premature water loss.

Allow a minimum curing time interval of 12 hours before opening up the area to vehicular traffic.

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

**FLOORSHIELD 831 RE-SURFACING SCREED**

**TECHNICAL DATA**

(Tested at Part A/ Part B ratio = 17 % by weight)

<b>Wet Density</b>	2.1
<b>Compressive Strength (ASTM C 109/C 109M: 2012) at 28 days</b>	> 35 N/mm <sup>2</sup>
<b>Flexural Strength at 28 days (ASTM C 348:2008)</b>	> 8 N/mm <sup>2</sup>
<b>Tensile Strength at 28 days [ASTM C 307: 2003 (2012)]</b>	> 5 N/mm <sup>2</sup>
<b>Shear Bond Strength at 28 days [ASTM C 482:2002 (2009)]</b>	> 2 N/mm <sup>2</sup>
<b>Taber Abrasion (ASTM D 4060: 2010)</b>	Weight Loss < 1.5 gm
<b>Yield (1 set of 30 kg)</b>	Approx. 14.3 ltrs
<b>Skid Resistance [ASTM E303: 1993 (2008)]</b>	(wet condition) on wooden trowel >55 BPN
<b>QUV Accelerated Weathering (ASTM G154: 2012)</b>	500 hrs :No cracking 1000 hrs :Softening or delimitation after exposure
<b>Water Penetration (Din 1048-5:1991)</b>	0 mm

**GENERAL INFORMATION**

**PACKING** : 30 kg set consisting of Part A emulsion and Part B powder

**SHELF LIFE** : 12 months when stored in a cool and dry place, protected from rain and sunlight and extreme temperatures.

**PRECAUTION** : Avoid eye and unnecessary skin contact, as the product is alkaline  
In case of eye contact, flush with plenty of clean water and seek medical help immediately.

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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