

TECHNICAL DATA SHEET FOR

FLOORSHIELD 851 SL SCREED - UNDERLAYMENT

DESCRIPTION : Floorshield 851 SL Screed - Underlayment is a single component, rapid-setting, self-levelling polymer-modified compound consisting of a blend of powders, well-graded aggregates and special additives to achieve good flow property.

When mixed, Floorshield 851 SL Screed - Underlayment becomes a flowable compound and is easily applied over concrete floors as an interior underlayment for carpets, vinyl floor coverings or subsequent placement.

Floorshield 851 SL Screed - Underlayment is durable and has excellent adhesion to masonry substrates.

TYPE : Single component polymer modified compound for underlayment application

USES :

- As general resurfacing and repairing of concrete surface where a rapid return to service in 3-4 hours or short curing time is critical to be completed with subsequent floor coverings.
- Underlayment for carpets, parquet, vinyl floor coverings, tiles or natural stones.
- Suitable for interior application eg. offices, shopping malls, hospitals, schools, apartments and etc.

FEATURES :

- Early strength gain – ready for foot traffic after 3 hours
- Single component system – user friendly
- High flow
- Excellent adhesion to concrete
- Low shrinkage
- Chlorides free

APPLICATION DATA

METHOD : Metal trowel

THEORETICAL COVERAGE : 1.50 kg/m² per mm thickness

SURFACE PREPARATION : The substrate must be roughened or broom finished, structurally sound, clean and free from any loose dust, oil, grease, curing compound or other contaminants. Remove defective and unsound substrate.

Fill large cracks and holes with Floorshield 821 Epoxy Re-Mortar or Floorshield 822 Epoxy Putty or suitable patching mortar. Allow the treatment to cure followed by general washing.

FLOORSHIELD 851 SL SCREED - UNDERLAYMENT

DIRECTION OF USE : **Priming**
Prior to application of Floorshield 801 Water Dispersion Primer, remove all free water from the surface. Apply 1-2 coats of Floorshield 801 Water Dispersion Primer at 30-40 minutes time interval between coats. Floorshield 851 SL Screed - Underlayment should be applied as soon as the primer becomes tacky.

Mixing

Sufficient labour and materials should be worked out and prepared prior to installation of Floorshield 851 SL Screed - Underlayment.

For small quantities

Floorshield 851 SL Screed - Underlayment may be mixed using a hand held mechanical mixer. Pour the required amount of water into the pail followed by addition of Floorshield 851 SL Screed - Underlayment. Mix with a slow speed mechanical mixer for approximately 3 minutes until a lump free homogenous consistency is obtained

For large quantities

Floorshield 851 SL Screed - Underlayment may be mixed using a continuous mixer. Pour the required amount of water into the mixer for mixing followed by Floorshield 851 SL Screed - Underlayment. Mix for approximately 3 minutes until a lump free homogenous consistency is obtained. Let the mix stand for approximately 3 minutes and re-stir before use.

Ensure that mixer is washed thoroughly before the next batch.

Application

Discharge the mix onto the primed substrate and spread with a trowel at thickness of minimum 1 mm to maximum 10 mm in one layer. Roll over the surface using a spiked roller to release any bubbles in the mix

For placement of more than 1 layer, sufficient curing time interval of 2-3 hours is recommended for each subsequent layer, after the previous layer completely cures and hardens. Apply 1 coat of Floorshield 801 Water Dispersion Primer prior to application of Floorshield 851 SL Screed - Underlayment.

Allow the screed to cure for a minimum of 1-3 days (depending on substrate condition) before layering over with floor coverings.

LIMITATION :

- Do not use for exterior applications or areas where vehicular trafficking is expected.
- Do not apply Floorshield 851 SL Screed - Underlayment if temperature falls below 5°C.
- Floorshield 851 SL Screed – Underlayment must be well cured before covering.

FLOORSHIELD 851 SL SCREED - UNDERLAYMENT**TECHNICAL DATA**

Self Healing Time	10-20 minutes
Pot Life @ 27 ± 2°C:	30 - 45 minutes
Compressive Strength : ASTM C 109 : 1992)	
@ 1 day	> 14 N/mm ²
@ 3 days	> 18 N/mm ²
@ 7 days	> 28 N/mm ²
@ 14 days	> 32 N/mm ²
@ 28 days	> 35 N/mm ²
Adhesion Strength on Concrete (with Nippon Floorshield Water Dispersion Primer)	> 1.0 N/mm ²
Mix Ratio (Water : Powder):	1 : 4.3
Ready for Foot Traffic:	> 4 hours

Note:

*Tested at water / powder ratio= 0.23 ± 0.002

*Therefore, 25kg bag of Floorshield 851 SL Screed - Underlayment requires 5.8 litres of water

GENERAL INFORMATION

PACKING : 25 kg

SHELF LIFE : 6 months when stored in a cool and dry place, protected from rain and sunlight and extreme temperatures.

PRECAUTION : Avoid eye contact and unnecessary skin contact, as the product is alkaline. Gloves, goggles and dust mask should be worn. Avoid inhalation of dust during mixing. Wash thoroughly after handling. In case of eye contact, flush with plenty of clean water. Seek medical help immediately.

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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