

TECHNICAL DATA SHEET FOR

FLOOR-PRO 503 SL SCREED - OVERLAYMENT

FLOOR-PRO 503 SL SCREED - OVERLAYMENT is a two-component rapid setting, polymer-modified, self-smoothing compound consisting of a blend of powders, well-graded aggregates and special additives to achieve good flow property. When mixed, it becomes a flowable compound and is easily applied over concrete slab, screed or tiled floor as an overlay.

FEATURES

- Pre-packed – easy to mix and apply
- Excellent bond strength to substrate
- Excellent flowability, self-smoothing
- Environmentally friendly product
- Early strength gain
- Low shrinkage & chloride free
- UV & slip resistance

APPLICATION AREAS

- As a general resurfacing compound for repairing concrete surface
- As an overlay at corridor, walkway etc
- As an underlay for soft floor covering

PHYSICAL PROPERTIES

Chemical Composition	Modified acrylic polymer
Colour, mixed	Grey

PERFORMANCE DATA

Compressive strength	1 day: $\geq 15.0 \text{ N/mm}^2$ 7 days: $\geq 25.0 \text{ N/mm}^2$ 28 days: $\geq 36.0 \text{ N/mm}^2$
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*Conditions such as installation process, inappropriate maintenance, short and long-term wear and use as well as surface contaminants (wet or dry) affects the slipperiness of flooring materials. To meet slip resistance requirement for wet conditions and/or surface contaminants (wet or dry), appropriate textured or anti-slip floor systems are recommended. Please contact Nippon Paint for further details and specifications.

**The final floor finish shall follow the profile of the concrete, therefore appropriate levelling compound is recommended to treat the undulating surface.

APPLICATION GUIDE

Mixing Ratio (by weight)	Part A : Part B 20 : 5
Number of coats	1 coat
Recommended Thickness	Minimum 3 mm Maximum 5 mm
Theoretical Coverage	1.9 Kg/ m ² /mm
Pot Life (Working time)	15 mins@28°C
Setting time	60 mins
Curing time	28°C Foot traffic (hrs) 1

Substrate Temperature relative to dew point	≥ 3°C
Recommended application temperature range	Minimum 15°C Maximum 35°C
Relative Humidity	< 85%

SUBSTRATE REQUIREMENT

- Concrete or screed substrate should be a minimum of 25 N/mm² and adhesive pull off strength of 1.5 N/mm², free from laitance, dust and other contamination.
- The substrate should be dried up to 85% RH as per BS8204 and free from rising damp and ground water pressure.

SURFACE PREPARATION

- Concrete substrate must be clean, free of laitance and contaminants.
- The concrete substrate must be dry and waterproofed against negative ground water pressure.
- Appropriate moisture barrier at 2 mm thickness is recommended if the substrate moisture > 4%.
- In the event of high substrate moisture > 6%, it is recommended to apply a 5 mm thickness high compressive strength anti-osmosis epoxy mortar as moisture tolerance system.
- Allow to cure over-night before the application of subsequent painting system. Prepare the concrete substrate surface by captive shot blasting, scarifying or mechanical grinding. Repair damaged area and patch up cracks and holes using a patching compound. Cut 5mmX5mm grooves around the perimeter of the floor and at end points (eg: plinth, column, drains etc.)

APPLICATION METHOD

Applying Primer

- Priming with FLOOR-PRO 105 WATER DISPERSION PRIMER is essential to ensure good adhesion and reduce air release from substrate, which causes bubbling of the underlayment.
- Very absorbent concrete may require a second coat of FLOOR-PRO 105 WATER DISPERSION PRIMER
- FLOOR-PRO 105 WATER DISPERSION PRIMER should be applied as soon as it become tacky.

Applying FLOOR-PRO 503 SL SCREED - OVERLAYMENT

- Pour Part B (liquid) into a clean container. Slowly add Part A (powder) into the container containing Part B and mix with a low speed mechanical mixer for approximately 3 minutes until a homogeneous and lump-free consistency is obtained.
- Immediately after mixing, pour the well-mixed FLOOR-PRO 503 SL SCREED - OVERLAYMENT onto the primed surface and spread with a trowel at thickness of minimum 3mm to maximum 5mm per layer.
- Leave a neat edge for subsequent batches. Subsequent mixes should be poured into the wet edges of the previous 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 FLOOR-PRO 105 WATER DISPERSION PRIMER prior to application of FLOOR-PRO 503 SL SCREED - OVERLAYMENT.
- For areas directly exposed to weathering, a protective coating is highly recommended.

PACKAGING

Components	PART A (POWDER)	PART B (LIQUID)
TOTAL 25 Kg	20	5

STORAGE AND SHELF LIFE

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care. (Unopened and in good condition temperature 10°C to 30°C)

Components	PART A (POWDER)	PART B (LIQUID)
Months	6	6

SAFETY PRECAUTION

- This product is intended for use by professional applicators. Refer to the safety information display on the container and in the safety data sheet (SDS) before using the product.
- Use this product in well-ventilated area, avoid skin contact, spillage on the skin should immediately be removed with suitable cleanser, soap and water.
- Eye should be well flushed with water and seek for medical attention immediately upon contact with this product.
- During the application, naked flame, welding operation and smoking is not allowed. Adequate ventilation should be provided.
- If you have any doubt regarding the suitability of use, refer to Nippon Paint for further advice.

DISCLAIMER

The information in this data sheet is given to the best of Nippon Paint’s knowledge and practical experience. Users may consult with Nippon Paint on the general suitability of the product for their needs and specific application practices though it remains each user’s responsibility to determine the suitability of the product for the user’s particular use. The condition of the substrate and application are not within Nippon Paint’s control. Therefore no implied conditions, warranties or other terms will apply to the Product. Nippon Paint does not and cannot warrant the results which the user may obtain by using the product. In no event will Nippon Paint be liable to the user for any kind of loss (whether direct or indirect) even if Nippon Paint was previously advised of it. In line with Nippon Paint’s policy for continuous development, Nippon Paint reserves the right to modify the product and the information in this data sheet without prior notice. It is the user’s responsibility to check with Nippon Paint for the latest version of this data sheet. This data sheet has been translated into various languages. In the event of any inconsistency, the English version shall prevail.