

TECHNICAL DATA SHEET FOR

## FLOOR-PRO 502 RAPID SETTING SCREED

FLOOR-PRO 502 RAPID SETTING SCREED is a one-component cementitious screed specially formulated to improve workability and high early ultimate strength for use as floor leveling on uneven horizontal surface before laying top coating.

### FEATURES

- Good workability and easy application
- High compressive and flexural strength
- Good abrasion resistance
- Good shear bond strength

### APPLICATION AREAS

- Use for internal/external applications
- Ideal for use in shower base to create correct falls, also suitable for use on balconies as long as the correct falls are adhered to and covered with a waterproofing membrane
- It is suitable for concrete floor and fibre cement sheets

### PHYSICAL PROPERTIES

Chemical Composition	Water-based cementitious screed
Colour	Grey

### PERFORMANCE DATA

Compressive strength	1 day - 20 N/mm <sup>2</sup> 7 days - 38 N/mm <sup>2</sup> 28 days - 50 N/mm <sup>2</sup>
<p>*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.</p> <p>**The final floor finish shall follow the profile of the concrete, therefore appropriate levelling compound is recommended to treat the undulating surface.</p>	

### APPLICATION GUIDE

Mixing Ratio (by weight)	Use 1 bag (25 kg) FLOOR-PRO 502 RAPID SETTING SCREED with 3.0 – 3.5 ltr of clean water
Recommended Thickness	20- 40 mm
Theoretical Coverage	1.7 Kg/m <sup>2</sup>
Setting Time	Initial set: 5-6hrs Final set: 7-8hrs
Substrate Temperature relative to dew point	≥ 3°C
Recommended application temperature range	Minimum 5°C Maximum 40°C
Relative Humidity	< 85%

### SUBSTRATE REQUIREMENT

- Concrete or screed substrate should be a minimum of 25 N/mm<sup>2</sup> and adhesive pull off strength of 1.5 N/mm<sup>2</sup>, 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 (e.g.: 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.
- Apply directly by using a roller, brush or spraying in thin layer to avoid film formation.

#### Applying FLOOR-PRO 502 RAPID SETTING SCREED

- FLOOR-PRO 502 RAPID SETTING SCREED should be mixed using a drill and suitable paddle
- Slowly pour the bag of powder to the water while mixing thoroughly, and then pour remainder powder in
- Do not exceed the recommended ratio when adding water as this will promote bleed and separation with a reduction in bond and tensile strength
- Apply FLOOR-PRO 502 RAPID SETTING SCREED to the primed substrate using a screed bar or trowel to give the required thickness, minimum thickness is 20mm, BRC reinforcement recommended for minimum 40mm thickness.
- For bonded screeds or external areas, minimum thickness should be 25mm for concrete or 35mm on F/C sheet

### PACKAGING

TOTAL 25 Kg

### STORAGE AND SHELF LIFE

The product has a shelf life of 6 months and 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)

**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.