

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

<b>Chemical Composition</b>	Water-based cementitious screed
<b>Colour</b>	Grey

### PERFORMANCE DATA

<b>Compressive strength</b>	1 day - 20 N/mm <sup>2</sup> 7 days - 38 N/mm <sup>2</sup> 28 days - 50 N/mm <sup>2</sup>
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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

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

### SUBSTRATE REQUIREMENT

- Concrete or screed substrate compressive strength should be of minimum 25 N/mm<sup>2</sup> and adhesive pull off strength of 1.5 N/mm<sup>2</sup>.
- The moisture content of concrete shall be < 4% or dried up to 85% RH as per BS8204. It shall be free from rising damp and must be waterproofed against negative ground water pressure.

### SURFACE PREPARATION

- Concrete substrate must be clean, free of laitance and contaminants that might inhibits bonding.
- Repair cracks and damaged area using a suitable repair material compatible with the floor screed.

### 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.