

TECHNICAL DATA SHEET FOR

## FLOOR-PRO 501 RE-SURFACING SCREED

FLOOR-PRO 501 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. The product is designed to have high abrasion resistance and outstanding skid resistance for internal and external walkways and areas subjected to foot traffic.

### FEATURES

- Pre-packed – easy to mix and apply
- Excellent bond strength to substrate
- Excellent abrasion and impact resistance
- High flexural and tensile strength
- Good water resistance

### APPLICATION AREAS

- 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

### PHYSICAL PROPERTIES

|                      |                                      |
|----------------------|--------------------------------------|
| Chemical Composition | Acrylic Polymer Cementitious Coating |
| Colour               | Grey                                 |

### PERFORMANCE DATA

|                           |   |
|---------------------------|---|
| Shear adhesive strength   | > 2.0 N/mm <sup>2</sup> (ASTM C482)         |
| Compressive strength      | > 35.0 N/mm <sup>2</sup> (ASTM C109)        |
| Flexural strength         | > 8 N/mm <sup>2</sup> (ASTM C348)           |
| Taber abrasion wear index | < 1.5g/1000 cycles (ASTM D 4060, H22 Wheel) |
| Water penetration         | < 5mm (DIN 1048-5)                          |

\*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<br>5 : 1     |
| Number of coats          | 1 coat                       |
| Recommended Thickness    | Minimum 2 mm<br>Maximum 5 mm |
| Theoretical Coverage     | 2 Kg/ m <sup>2</sup> /mm     |
| Pot Life (Working time)  | 20 mins @ 28°C               |

|   |                              |
|---|------------------------------|
| Curing time                                 | 30°C<br>Foot traffic (hrs) 2 |
| Substrate Temperature relative to dew point | ≥ 3°C                        |
| Recommended application temperature range   | Minimum 15°C<br>Maximum 35°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 111 WB APCC PRIMER is essential to ensure good adhesion and reduce air release from substrate, which causes bubbling of the underlayment.
- On standard concrete, apply FLOOR-PRO 111 WB APCC PRIMER without dilution.
- Very absorbent concrete may require a second coat of FLOOR-PRO 111 WB APCC PRIMER.
- Non-porous floors such as ceramic tiles, painted or epoxy surfaces and sealed burnished concrete floors should be primed without dilution.

#### Applying FLOOR-PRO 501 RE-SURFACING SCREED

- Pour Part B (Polymer) into clean container and gradually add Part A (Powder). Mix slowly with a low speed mechanical mixer and stir until a creamy paste consistency is obtained.
- Pour and lay the mixture onto prepared surface. Use a metal trowel to smoothen the material up to thickness of 2mm to 5mm.
- Avoid over rolling and do not attempt to float finish the setting surface.
- Application of mixed materials within 20 minutes.
- Broom the surface to promote anti-skid surface shortly after initial set.
- Allow freshly applied material to cure naturally in ambient conditions. Protect with polythene sheet to reduce premature water loss. Foot traffic after 2 hours depends on the substrate and environment.

**PACKAGING**

| Components | PART A (POWDER) | PART B (POLYMER) |
|------------|-----------------|------------------|
| TOTAL      | 25 kg           | 5 L              |

**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 (POLYMER) |
|------------|-----------------|------------------|
| Months     | 9               | 9                |

**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.