

## TECHNICAL DATA SHEET FOR

## FLOOR-PRO 202 SF EPOXY MORTAR

**FLOOR-PRO 202 SF EPOXY MORTAR** is a three-component solvent-free moisture tolerant underlayment for resinous flooring system. It is formulated with epoxy resin filled with special filler applied between 3mm to 10mm thickness

### FEATURES

- Solvent-free, low odour
- Seamless & hygienic finish when sealed
- Low maintenance
- High impact resistance
- Heavy duty for traffic
- Excellent chemical resistance
- Excellent durability

### APPLICATION AREAS

- Suitable for industrial floor, warehouse, chemical plants, manufacturing areas and car parks. To provide a heavy duty flooring at areas exposed to heavy traffic, impact and chemical resistance

Note: A topcoat is required as the product is not intended for exposure to UV light or weathering

### PHYSICAL PROPERTIES

<b>Chemical Composition</b>	Solvent-free epoxy mortar
<b>Colour</b>	Natural
<b>Density, mixed</b>	2.2 ± 0.1 g/cm <sup>3</sup> @ 28°C
<b>Solid Content, mixed</b>	100% by weight

### PERFORMANCE DATA

<b>Adhesive strength</b>	> 2.0 N/mm <sup>2</sup> (Concrete failure)
<b>Compressive Strength</b>	70 N/mm <sup>2</sup> @ 28 days
<b>Flexural Strength</b>	30 N/mm <sup>2</sup>
<b>Tensile strength</b>	22 N/mm <sup>2</sup>
<b>Impact Resistance</b>	0.3 mm (BRE Screed Test)

\*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>	Part A : Part B : Part C 4 : 1 : 45
<b>Number of coats</b>	1 coat
<b>Recommended Thickness</b>	3-10mm (subjected to requirement), minimum 5.0mm as moisture tolerant epoxy mortar
<b>Theoretical Coverage</b>	2.2 Kg/m <sup>2</sup> /mm
<b>Recoating time</b>	Min 12 hrs @ 28°C

Pot life (Working time)	45 mins @ 28°C		
Curing time		20°C	30°C
	Foot traffic (hrs)	24	16
	Light traffic (hrs)	72	48
	Exposure to chemicals (days)	10	7
Substrate Temperature relative to dew point	≥ 3°C		
Recommended application temperature range	Minimum 5°C Maximum 40°C		
Relative Humidity	< 85%		

### SUBSTRATE REQUIREMENTS

- 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.
- Allow to cure over-night before the application of subsequent coating 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 suitable repair material compatible with the coating system.

### APPLICATION METHOD

#### Applying Primer

- FLOOR-PRO 106 SF EPOXY PRIMER is the recommended primer. Refer to the product TDS for details application method.

#### Applying FLOOR-PRO 202 SF EPOXY MORTAR

- Pour all Part B into the Part A container and mix both liquid part thoroughly for 1 minute by using a suitable electrical stirrer (with 750 watt high power mixer) until a fully homogenous mix has been achieved, transfer Part A & Part B (mixed) to a forced action mixer e.g. a Create angle and mix with aggregate until uniform.
- Transfer the mixed material to a clean container and mix for another minute. Avoid inclusion of air during the mixing process.
- Apply FLOOR-PRO 202 SF EPOXY MORTAR within 1 hours of priming (i.e. while the priming coat is still tacky), and spread the screed onto the primer floor with screed box as per requirement thickness, compact and finish using a steel blade trowel or power float.

#### Sealing

- Apply one or two coats of FLOOR-PRO 324 SF EPOXY OP TEXTURE or FLOOR-PRO 106 SF Epoxy Primer mixed with 5 - 7% by weight of pyrogenic silica at 0.3 - 0.5 Kg/m<sup>2</sup>/coat to seal the porous surfaces

PACKAGING			
Components	PART A (BASE)	PART B (HARDENER)	PART C (AGGREGATE)
TOTAL 50 Kg	4	1	45

**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 (BASE)	PART B (HARDENER)	PART C (AGGREGATE)
Months	12	12	12

**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.