

TECHNICAL DATA SHEET FOR

**FLOOR-PRO 302 AQUA EPOXY FINISH**

**FLOOR-PRO 302 AQUA EPOXY FINISH** is a two-pack high performance waterborne modified amine epoxy. It is designed for protection of the internal masonry surfaces such as cement or concrete floor, cement or concrete wall. It is recommended for internal use and in non-immersion services.

**FEATURES**

- Good abrasion resistance
- Tough finishing
- Easy to apply
- Environmentally friendly
- Solvent free
- Non-toxic does not contain lead, mercury and heavy metals

**APPLICATION AREAS**

- Ideal for factories, canteen, electronics industries, pharmaceutical, offices and institutions
- For application of internal masonry surfaces such concrete wall or floor with appropriate primer

**PHYSICAL PROPERTIES**

<b>Chemical Composition</b>	Two-pack, water-based epoxy-amine
<b>Colour</b>	Wide range of colour
<b>Density, mixed</b>	1.27 ± 0.03 g/cm <sup>3</sup> @28°C (based on White)
<b>Viscosity, mixed</b>	120 ± 5 KU @ 28°C
<b>Solid Content, mixed</b>	50 ± 2% by volume

**PERFORMANCE DATA**

<b>Adhesive strength</b>	>1.5 N/mm <sup>2</sup> (Concrete failure)
<p>*The slipperiness of flooring materials can change significantly, due to the installation process, after short periods of use, due to inappropriate maintenance, longer-term wear and/or surface contaminants (wet or dry). Textured systems are recommended to meet slip resistance value requirements for wet conditions and/or surface contaminants (wet or dry). Please contact Nippon Paint for further details and specifications.</p> <p>No simultaneous chemical and mechanical exposure.</p>	

**APPLICATION GUIDE**

<b>Mixing Ratio (by volume)</b>	Part A : Part B 1 : 4
<b>Number of coats</b>	2 - 3
<b>Recommended Thickness</b>	50 ± 10 μ
<b>Theoretical Coverage</b>	10 m <sup>2</sup> /L @ 50 μm dry film thickness per coat
<b>Practical Coverage (20% loss factor)</b>	8.0 m <sup>2</sup> /L @ 50 μm dry film thickness per coat
<b>Recoating time</b>	12 hrs min @ 30°C

<b>Pot Life (Working time)</b>	1 hour at 30°C	
<b>Curing time</b>		30°C
	Human traffic (days)	1
	Light Traffic (days)	3
	Exposure to chemicals (days)	7
<b>Substrate Temperature relative to dew point</b>	≥ 3°C	
<b>Recommended application temperature range</b>	Minimum 15°C Maximum 35°C	
<b>Relative Humidity</b>	< 85%	

### SUBSTRATE REQUIREMENTS

- 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 4 to 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

- FLOOR-PRO 104 AQUA EPOXY PRIMER is the recommended primer for concrete floors as penetrative coat.

#### Applying FLOOR-PRO 302 AQUA EPOXY FINISH

- Mix Part B until a homogenous mix is obtained. Add all the Part A into Part B and mix both liquid parts thoroughly for 2-5 minutes until homogeneous. Avoid inclusion of air during the mixing process. May be applied by brush, roller or spray. Spread with a squeegee and back roll with a roller

#### Overcoating of FLOOR-PRO 302 AQUA EPOXY FINISH

- Overcoating the previous coat should be done within 3 days but preferably as soon as possible after it has been allowed for minimum of 16 hours drying.
- Exposure of the paint film to water, chemical and abrasion should be avoided as far as possible before full cure of the coating.

PACKAGING		
Components	PART A	PART B
TOTAL 5 L	1	4

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.		
Components	PART A	PART B
Months	12	12

SAFETY PRECAUTION	
<ul style="list-style-type: none"> <li>▪ 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.</li> <li>▪ Use this product in well-ventilated area, avoid skin contact, spillage on the skin should immediately be removed with suitable cleanser, soap and water.</li> <li>▪ Eye should be well flushed with water and seek for medical attention immediately upon contact with this product.</li> <li>▪ During the application, naked flame, welding operation and smoking is not allowed. Adequate ventilation should be provided.</li> <li>▪ If you have any doubt regarding the suitability of use, refer to Nippon Paint for further advice.</li> </ul>	

DISCLAIMER
<p>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.</p>