

TECHNICAL DATA SHEET FOR

**FLOOR-PRO 303 WB EPOXY HD FINISH**

FLOOR-PRO 303 WB EPOXY HD FINISH is a two-component, water-based epoxy coating with superior water vapour permeability with non out-gassing properties

**FEATURES**

- Water-based, low odour
- Self-priming
- Moisture tolerant during application
- Extremely good adhesion on concrete
- Complied with HACCP requirement

**APPLICATION AREAS**

- Ideal to be used as wall, floor and steel surface coating for dust proofing protection
- Recommended for area that requires easy maintenance and good chemical resistance
- Suitable for use in food industrial, assembly plant, pharmaceutical, warehouses, car parks, clean room environment and light industrial area

**PHYSICAL PROPERTIES**

Chemical Composition	Water-based epoxy
Colour	As per standard colours
Density, mixed	1.45 ± 0.05 g/cm <sup>3</sup> @ 28°C
Viscosity, mixed	3500 ± 500 cps @ 28°C
Solid Content, mixed	78 ± 2% by weight

**PERFORMANCE DATA**

Adhesive strength	> 1.5 N/mm <sup>2</sup> (Concrete failure)	
Taber Abraser Wear Index	31 mg / 1000 revolutions / 1kg (ASTM D 4060-10)	
Growth of Aquatic Microorganisms	< 2.39 mg/L or less (BS 6920 : Part 1)	
Chemical Resistance (28°C)	<b>CHEMICAL</b>	<b>RESISTANCE</b>
	Acetic Acid (5%)	Excellent
	Beer	Excellent
	Blood	Excellent
	Citric Acid (5%)	Excellent
	Detergents-acidic	Excellent
	Detergents-alkaline	Excellent
	Fats-animals and vegetable	Excellent
	Fish oils	Excellent
	Lactic Acid	Excellent
	Oil – diesel	Excellent
	Oil –Fuel	Excellent
	Oil-Mineral	Excellent
	Sugar	Excellent
	Sodium hydroxide (20%)	Excellent
	Sodium Sulphate (20%)	Excellent

\*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 4 : 1
Number of coats	2 – 3 coats
Recommended Thickness	150 µm DFT per coat
Theoretical Coverage	0.18 Kg/m <sup>2</sup> /coat
Recoating time	Within 14 to 18 hours @ 28°C
Pot Life (Working time)	30 mins @ 28°C
Substrate Temperature relative to dew point	≥ 3°C
Recommended application temperature range	Minimum 10°C Maximum 45°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 (eg: plinth, column, drains etc.)

### APPLICATION METHOD

#### Applying FLOOR-PRO 303 WB EPOXY HD FINISH

- Stir Part A mix for 30 seconds by using a suitable electrical stirrer (with 750 watt high power mixer), then add all of Part B (Hardener) and mix both liquid parts thoroughly for 1 minute until it fully achieved a homogeneous, then slowly add 5% -10% of clean water while mixing continues for a further 1 minute 30 seconds until a fully homogenous mix has been achieved.
- Apply FLOOR-PRO 303 WB EPOXY HD FINISH with suitable roller, brush or spray.
- Thin up to 5% - 10% of clean water for better penetration and workability.

**PACKAGING**

Components	PART A (BASE)	PART B (HARDENER)
TOTAL 5 KG	4	1

**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 (BASE)	PART B (HARDENER)
Months	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.