

## TECHNICAL DATA SHEET FOR

## FLOOR-PRO 311 SB EPOXY FINISH

**FLOOR-PRO 311 SB EPOXY FINISH** is a two-component solvent-based epoxy coating based on high quality epoxy resin and polyamide hardener

### FEATURES

- Can be primer and top coated (indoor)
- Excellent resistance to abrasion, chemical and corrosion
- Easy to apply and low maintenance
- Excellent adhesion on most surfaces
- Hygienic – easy to clean, dust free surface

### APPLICATION AREAS

- Can be applied on concrete, steel, structural steel and piping
- Ideal to use at light duty industrial areas, warehouse, garages, car park decks, refineries and other industrial plants sector where chemical resistance are required

### PHYSICAL PROPERTIES

<b>Chemical Composition</b>	Solvent-based epoxy
<b>Colour</b>	As per standard colours
<b>Density, mixed</b>	1.35 ± 0.05 g/cm <sup>3</sup> @ 28°C
<b>Solid Content, mixed</b>	70 ± 3% (By weight)

### PERFORMANCE DATA

<b>Adhesive strength</b>	> 1.5 N/mm <sup>2</sup> (Concrete failure)
<b>Taber Abraser Wear Index</b>	5 mg / 1000 revolutions / 1 Kg (ASTM D 4060-10)
<b>Water Permeability</b>	Nil-Karsten test (Impermeable)

\*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 4.3 : 0.7			
Number of coats	2 – 3 coats			
Recommended Thickness	Approximately 75 µm DFT per coat			
Theoretical coverage	0.15 Kg/ m²/ coat			
Recoating time	Within 10 -24 hrs @ 28 °C			
Pot Life (Working time)	2 hours @ 28°C			
Curing time	15°C	25°C	32°C	
	Foot traffic (hrs)	24	20	16
	Light Traffic (days)	30	24	24
	Exposure to chemicals (days)	10	7	7
Substrate Temperature relative to dew point	≥ 3°C			

<b>Recommended application temperature range</b>	Minimum 5°C Maximum 45°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.
- In the event the moisture content is > 4%, FLOOR-PRO 203 SL EPOXY MOISTURE BARRIER may be applied as temporary moisture barrier system.
- 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 FLOOR-PRO 311 SB EPOXY FINISH

- Mix Part A and Part B separately for 30 seconds using a suitable mechanical mixer at low speed (approx. 300 - 500 rpm). Add all the Part B (Hardener) into Part A and mix both liquid parts thoroughly for 1 minute. Charge in Part C and mix further for 1 minute.
- Transfer the mixed material to a clean container and mix for another minute. Avoid inclusion of air during the mixing process.
- Pour the mixed material onto the substrate in portion, and spread with a squeegee and back roll with a roller.

##### Over-coating of FLOOR-PRO 311 SB EPOXY FINISH

- Over-coating the previous coat should be done within 1 day but preferably as soon as possible after it has been allowed for minimum of 10 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 (BASE)	PART B (HARDENER)
<b>TOTAL 5 Kg</b>	4.3	0.7

#### 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)
<b>Months</b>	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.