

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

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

PERFORMANCE DATA

Adhesive strength	> 1.5 N/mm ² (Concrete failure)
Taber Abraser Wear Index	5 mg / 1000 revolutions / 1 Kg (ASTM D 4060-10)
Water Permeability	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 100 µm per coat																
Theoretical coverage	0.15 Kg/ m ² /coat																
Recoating time	Within 10 -24 hrs @ 28 °C																
Pot Life (Working time)	2 hours @ 28°C																
Curing time	<table border="1"> <thead> <tr> <th></th> <th>15°C</th> <th>25°C</th> <th>32°C</th> </tr> </thead> <tbody> <tr> <td>Foot traffic (hrs)</td> <td>24</td> <td>20</td> <td>16</td> </tr> <tr> <td>Light Traffic (days)</td> <td>30</td> <td>24</td> <td>24</td> </tr> <tr> <td>Exposure to chemicals (days)</td> <td>10</td> <td>7</td> <td>7</td> </tr> </tbody> </table>		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
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Substrate Temperature relative to dew point	≥ 3°C																

Recommended application temperature range	Minimum 5°C Maximum 45°C
Relative Humidity	< 85%

SUBSTRATE REQUIREMENT

- Concrete or screed substrate should be a minimum of 25 N/mm² and adhesive pull off strength of 1.5 N/mm², 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 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.
- 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)
TOTAL 5 Kg	4.3	0.7
TOTAL 20 Kg	17.2	2.8

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.