

TECHNICAL DATA SHEET FOR

FLOOR-PRO 315 SL EPOXY FINISH

FLOOR-PRO 315 SL EPOXY FINISH is a three-component, solvent-free self-smoothing epoxy resin coating in high gloss seamless finish applied at 1.5 – 3.0mm thickness

FEATURES

- Solvent free, low odour
- High gloss thus easy to clean and maintenance
- High impact and chemical resistance
- Seamless and dust free
- Environmentally friendly paint certified under the Singapore Green Building Product Certification Scheme

APPLICATION AREAS

- Ideal to be used on prepared and primed concrete floor in medium to heavy duty industrial environment

PHYSICAL PROPERTIES

Chemical Composition	Solvent-free modified amine cured epoxy
Colour	As per standard colours
Finish	High gloss
Density, mixed	1.50 ± 0.05 g/cm ³ @28°C
Viscosity, mixed	Approx 1300 - 2800 mPas @28°C
Solid Content, mixed	100%

PERFORMANCE DATA

Adhesive Strength	> 1.5 N/mm ² (Concrete failure) (ASTM D4541)
Compressive Strength	> 70 N/mm ² (ASTM D695)
Flexural Strength	> 40 N/mm ² (ASTM D790)
Tensile Strength	> 35 N/mm ² (ASTM D638)
Taber Abraser Wear Index	< 80mg / 1000 revolutions (ASTM D4060, CS-17)
Shore D Hardness	> 75 (ASTM D2240)
Growth of Aquatic Microorganisms	Mean dissolved oxygen differences: ≤ 1.69 mg/L Mean dissolved oxygen concentration: 8.5 ± 2.5 mg/L (BS 6920 : Part 2.4)

*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). Please contact Nippon Paint for further details and specifications. No simultaneous chemical and mechanical exposure.

**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 : Part C 41.39 : 14.17 : 44.44
Number of coats	1 coat
Recommended Thickness	1-2 mm DFT per coat
Theoretical Coverage	Mixture: 1.80 kg/m ² /mm

Pot Life (Working time)	20 mins @ 28°C
Recoating time	Within 24 - 48 hours @ 28°C
Curing time	30°C Foot traffic (hrs) 24 Light Traffic (days) 3 Exposure to chemicals (days) 7
Substrate Temperature relative to dew point	≥ 3°C
Recommended application temperature range	Minimum 15°C Maximum 35°C
Relative Humidity	< 85%

SUBSTRATE REQUIREMENT

- Concrete or screed substrate compressive strength should be of minimum 25 N/mm² and adhesive pull off strength of 1.5 N/mm².
- 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

- FLOOR-PRO 315 SL EPOXY FINISH is supplied in proportionate quantities in 3-component containers. The entire contents of the Part A are mixed and poured into a clean mixing barrel then charge in Part C and mix for 1 minute. Empty Part B into the mixing barrel and mix for further 1 minute using a mechanical stirrer till homogeneous. Use a 300 - 500 rpm slow-speed drill, with a spiral mixing blade or Jiffy mixer.
- Move the mixing blade in circles around the inside edge of the pail from bottom to top. Transfer the mixed material to a clean container and mix for another minute. The inclusion of air in the stirring process must be avoided.
- Mixture is poured onto the primed surface in portions, spread evenly with serrated trowel. Remove the entrapped air with the spike roller immediately after application.
- As the Part C are natural quartz sand, its colours and purity are dependent on the source of the mine. The finishing colour tone may shift and follow the undertone of the sand. It is advisable to use the same batch of quartz sand to achieve consistent colour throughout the

PACKAGING

Components	PART A (BASE)	PART B (HARDENER)	PART C (FILLER)
TOTAL 18 Kg	7.45	2.55	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)	PART C (FILLER)
Months	12	12	24

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.