

TECHNICAL DATA SHEET FOR

FLOOR-PRO 315 SL2 EPOXY FINISH

FLOOR-PRO 315 SL2 EPOXY FINISH is a three-component, solvent-free self-smoothing epoxy coating in high gloss seamless finish applied at 2mm thickness.

FEATURES

- Solvent free, low odour
- High gloss thus easy to clean contamination
- High impact and chemical resistance
- Seamless and dust free
- Good light reflectance

APPLICATION AREAS

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

PHYSICAL PROPERTIES

Chemical Composition	Solvent-free modified cycloaliphatic epoxy
Colour	As per standard colours
Finish	High gloss
Density, mixed	1.70 ± 0.03 g/cm ³ @28°C
Viscosity, mixed	Approx 3000 - 4000 mPas @28°C
Solid Content, mixed	100%

PERFORMANCE DATA

Adhesive strength	> 1.5 N/mm ² (Concrete failure) (ASTM D4541)
Compressive Strength	> 85 N/mm ² (ASTM C579)
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)

*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 : Part C 5.7 : 2.0 : 12.3
Number of coats	1 coat
Recommended Thickness	2 mm per coat
Recoating time	Within 24 - 48 hours @ 28°C
Theoretical Coverage	Approx 3.4 Kg/m ² /2mm
Pot Life (Working time)	20 mins @ 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 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

- FLOOR-PRO 315 SL2 EPOXY FINISH** is supplied in proportionate quantities in 3-component containers. The entire contents of the Part A is mixed and poured into a clean mixing barrel. Charge in Part C and mix further for 1 minute till homogeneous. Then empty Part B into the mixing barrel and mix for 1 minute using a mechanical stirrer. 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. The inclusion of air in the stirring process must be avoided..
- Mixture is poured onto the primed surface in portions, may be applied by brush, roller or spray. Spread with a squeegee and back roll with a roller.

PACKAGING			
Components	PART A (BASE)	PART B (HARDENER)	PART C (FILLER)
TOTAL 20 Kg	5.7	2.0	12.3

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	24	24	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.