

TECHNICAL DATA SHEET FOR

FLOOR-PRO 203 SL EPOXY MOISTURE BARRIER

FLOOR-PRO 203 SL EPOXY MOISTURE BARRIER is a three-component epoxy modified cementitious self-smoothing moisture barrier

FEATURES

- Solvent-free, low odour
- Excellent mechanical strength and early strength
- Excellent flowability and self-smoothing
- Moisture tolerant during application
- Compatible with wide range of topcoats
- Excellent adhesion and easy to apply to sound prepared surfaces

APPLICATION AREAS

- As a moisture barrier applied between 2 to 4mm thickness prior to epoxy, polyurethane or other floor coating
- Used for repairing, levelling or patching on unfinished concrete
- As underlayment for carpet, vinyl and tiles

PHYSICAL PROPERTIES

Chemical Composition	Water-based epoxy with cement aggregates
Colour	Light grey
Density, mixed	2.00 g/cm ³ @ 28°C

PERFORMANCE DATA

Adhesive strength	> 1.5 N/mm ² (Concrete failure)
Compressive Strength	40 N/mm ² @ 28 days
Flexural Strength	15 N/mm ²
Tensile strength	20 N/mm ²
Impact Resistance	0.35 mm (BRE Screed Test)

*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 3.5 : 1.5 : 19								
Number of coats	1 coat								
Recommended Thickness	2 – 4 mm								
Theoretical Coverage	2 Kg/ m ² /mm								
Recoating Time	Min 40 hrs @ 28°C								
Pot life (Working time)	25 mins @ 28°C								
Curing time	<table border="1"> <tr> <td></td> <td>22°C</td> <td>28°C</td> <td>32°C</td> </tr> <tr> <td>Light traffic (days)</td> <td>3</td> <td>2</td> <td>2</td> </tr> </table>		22°C	28°C	32°C	Light traffic (days)	3	2	2
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Substrate Temperature relative to dew point	≥ 3°C
Recommended application temperature range	Minimum 5°C Maximum 40°C
Relative Humidity	< 85%

SUBSTRATE REQUIREMENTS

- 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

- Shake Part A and Part B, and pour both liquid in to 20 ltr pails and mix 5 seconds, and add Part C, mix thoroughly for at least 2 minutes using a suitable electrical stirrer with helical paddle (with 750 watt high power mixer) until a smooth homogenous consistency is achieved
- Apply FLOOR-PRO 101 WB EPOXY PRIMER OFF WHITE for sealing well the substrate porosity
- Usually within 14 – 18 hours; FLOOR-PRO 101 WB EPOXY PRIMER OFF WHITE cured (tack free), then only allow apply FLOOR-PRO 203 SL EPOXY MOISTURE BARRIER
- Apply the mixed FLOOR-PRO 203 SL EPOXY MOISTURE BARRIER spread the composite matrix with notched squeegee or pin rake and set it to the correct depth on requirement thickness. Immediately with a spiked roller to ensure uniform thickness and remove entrapped air

CARE AND MAINTENANCE

- Regular cleaning and maintenance will prolong the life of FLOOR-PRO 203 SL EPOXY MOISTURE BARRIER floor topping. Regular cleaning using a single or double headed rotary scrubber with alkaline detergent is recommended.

PACKAGING			
Components	PART A (BASE)	PART B (HARDENER)	PART C (AGGREGATE)
TOTAL 24 Kg	3.5	1.5	19

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. (Unopened and in good condition temperature 10°C to 30°C)

Components	PART A (BASE)	PART B (HARDENER)	PART C (AGGREGATE)
Months	12	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.