

TECHNICAL DATA SHEET FOR

FLOOR-PRO 104 AQUA EPOXY PRIMER

FLOOR-PRO 104 AQUA EPOXY PRIMER is a two-component water-based modified amine cured epoxy primer. It is designed to penetrate and seal porous surfaces in concrete. It also provides good adhesion for subsequent topcoat. It is suitable for use as a tie coat between concrete substrate and water-based topcoat

FEATURES

- Excellent adhesion on concrete surfaces
- Fast drying at ambient temperature
- Easy to apply
- Environmentally friendly
- Water-based
- Non-toxic, does not contain lead, mercury and heavy metals

APPLICATION AREAS

- Ideal as a primer coat, barrier coat or tie coat between any single-pack coatings, two-pack water-based topcoats.
- For application on concrete floor and wall at food factories, laboratories, institutions and interior of buildings.

PHYSICAL PROPERTIES

Chemical Composition	Two-component, water-based epoxy-amine primer
Colour	Clear
Density, mixed	1.03 ± 0.03 g/cm ³ @ 28°C
Viscosity, mixed	50 ± 5 KU @ 28°C
Solid Content, mixed	38 ± 2% by volume

PERFORMANCE DATA

Adhesive strength	> 1.5 N/mm ² (Concrete failure)
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*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 volume)	Part A : Part B 1 : 4
Number of coats	1 – 2 coats dependent on concrete porosity
Theoretical Coverage	0.15 - 0.19 L/m ² /coat
Recoating time	Within 16 – 24 hrs @ 28°C
Pot Life (Working time)	1 hour @ 28°C
Curing time	Touch dry 2 hour @ 28°C
Substrate Temperature relative to dew point	≥ 3°C
Recommended application temperature range	Minimum 15°C Maximum 35°C

Relative Humidity	< 85%
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SUBSTRATE REQUIREMENTS

- 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

Applying FLOOR-PRO 104 AQUA EPOXY PRIMER

- Add all the Part A into Part B and mix both liquid parts thoroughly for 2-5 minutes until homogeneous. Transfer the mixed material to a clean container and mix for another minute. Avoid inclusion of air during the mixing process. May be applied by brush, roller or spray. Spread with a squeegee and back roll with a roller

Overcoating of FLOOR-PRO 104 AQUA EPOXY PRIMER

- Overcoating the previous coat should be done within 3 days but preferably as soon as possible after it has been allowed for minimum of 16 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	PART B
TOTAL 5 L	1	4
TOTAL 20 L	4	16

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	PART B
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.