

TECHNICAL DATA SHEET FOR

FLOOR-PRO 104 AQUA EPOXY PRIMER

FLOOR-PRO 104 AQUA EPOXY PRIMER is a two-pack waterborne modified amine cured epoxy primer. It is designed to penetrate and seal porous substrates such as concrete floor surfaces to provide good adhesion for subsequent topcoat. Acid-treatment should be done prior to application. It is suitable for use as a tie coat between concrete substrate and waterbased topcoat.

FEATURES

- Excellent adhesion on concrete surfaces
- Fast drying at ambient temperature
- Easy to apply
- Environmentally friendly
- Solvent free
- 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 floors and walls of food factories, laboratories, institutions and interior of buildings.

PHYSICAL PROPERTIES

Chemical Composition	Two-pack, 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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*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). Textured systems are recommended to meet slip resistance value requirements for wet conditions and/or surface contaminants (wet or dry). Please contact Nippon Paint for further details and specifications.

No simultaneous chemical and mechanical exposure.

APPLICATION GUIDE

Mixing Ratio (by volume)	Part A : Part B 1 : 4
Number of coats	1 - 2
Recommended Thickness	60 ± 20 μ
Theoretical Coverage	6.7 m ² / L @ 60 μm dry film thickness per coat
Practical Coverage (20% loss factor)	5.3 m ² / L @ 60 μm dry film thickness per coat
Recoating time	Min 16 hrs @ 30°C (depend on environment condition)

Pot Life (Working time)	1 hour @ 30°C
Curing time	Touch dry 2 hour @ 30°C
Substrate Temperature relative to dew point	≥ 3°C
Recommended application temperature range	Minimum 15°C Maximum 35°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 4 to 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 104 AQUA EPOXY PRIMER

- Add all the Part A into Part B and mix both liquid parts thoroughly for 2-5 minutes until homogeneous. 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

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.