

TECHNICAL DATA SHEET FOR

FLOOR-PRO 404 WB 3K PU FINISH

FLOOR-PRO 404 WB 3K PU FINISH is a three-component, high performance water-based aliphatic polyurethane coating designed for use as a durable topcoat to receive foot traffic.

FEATURES

- Water-based, low odour
- Durable and hardwearing to withstand aggressive and severe weather conditions
- Good UV resistance
- Anti-fungus and anti-algae properties
- High chemical resistance against alkaline salts, mild acids and a wide range of industrial chemicals

APPLICATION AREAS

- Use as a hardwearing, foot trafficable, chemical and abrasion resistant floor coating for concrete floor, walkways, pharmaceutical plants, laboratories and hospitals
- It can be applied over concrete and masonry surface, including self-levelling toppings and over epoxy coating to provide a non-chalking, non-yellowing protection against the aggressive weather elements or as an anti-dust finishing coat for use on interior industrial concrete floor

PHYSICAL PROPERTIES

Chemical Composition	Water-based aliphatic polyurethane
Colour	As per standard colour
Finish	Sheen
Density, mixed	1.04 – 1.20 g/cm ³
Viscosity, mixed	60 seconds @ 28°C (B4 cup)
Solid Content, mixed	Approximately 40 % (by weight)

PERFORMANCE DATA

Wet abrasion	> 5000 cycles
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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 weight)	Part A : Part B : Part C 20.8 : 2.2 : 1
Number of coats	2 coats
Recommended Thickness	50 µm DFT per coat
Theoretical Coverage	0.13kg/m ² /coat when used on concrete 0.05-0.07kg/m ² /coat when used with overlayment
Recoating time	30 mins @ 28°C
Pot Life (Working time)	3 hours @ 28°C

Curing time	28°C Foot traffic (hrs) 1
Substrate Temperature relative to dew point	≥ 3°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 (e.g: plinth, column, drains etc.)

APPLICATION METHOD

Applying FLOOR-PRO 404 WB 3K PU FINISH

- Stir each component separately using an electric drill fitted with a paint mixer or a wing type mixing paddle
- Pour the entire contents of Part B into Part A and mix evenly
- Pour Part C into the blend and mix for approximately 3 minutes until a homogenous tone is achieved
- Avoid inclusion of air during the mixing process
- Pour the mixed material onto the primed substrate in portion, and spread with a squeeze and back roll with a wide short-pile mohair roller

Over-coating of FLOOR-PRO 404 WB 3K PU FINISH

- Over-coating the previous coat can be done within approximately 30 minutes after first coat Exposure of the paint film to water, chemical and abrasion should be avoided as far as possible before full cure of the coating

Important note: Do not use mixed materials beyond the recommended pot-life of 3 hours. As Part B is sensitive to the weather, only open the Hardener (Part B) portion when required for mixing and close tightly after use

PACKAGING

Components	PART A (BASE)	PART B (HARDENER)	PART C (POWDER)
TOTAL 24 Kg	20.8	2.2	1

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 (POWDER)
Months	6	6	6

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.