TECHNICAL DATA SHEET FOR

FLOOR-PRO 103 WB CONDUCTIVE EPOXY PRIMER

FLOOR-PRO 103 WB CONDUCTIVE EPOXY PRIMER is a two-component water-based conductive primer based on epoxy resin and polyamide hardener

FEATURES

- Extremely good adhesion on concrete surfaces and most substrates
- Less sensitive and tolerant with moisture when during application
- Environmentally friendly, zero VOC
- Solvent-free, odour less
- Easy to apply
- Extremely conductive properties

APPLICATION AREAS

- Ideal for wall and floor joint
- As a primer for FLOOR-PRO 316 SL ESD EPOXY FINISH & FLOOR-PRO 403 SL CONDUCTIVE PU SCREED

PHYSICAL PROPERTIES

Chemical Composition	Water-based polyamide epoxy
Colour	Black
Density, mixed	1.20 ± 0.05 g/cm^3 @ 28°C
Viscosity, mixed	4000 ± 200 cps @ 28°C
Solid Content, mixed	67 ± 2% by weight

PERFORMANCE DATA

Adhesive strength	> 2.0 N/mm^2 (Concrete failure)
ESD Standard Compliance	ANSI/ESD S-20.20-2007
ESD Floor Main Checking Criteria & Spec: <u>Conductive</u>	
Surface to Ground (Earth) Rg Spec (BS-2050)	1E~9E+2 Ω ~ 1E~9E+4 Ω (1-9 x 10^2 ohm ~ 9 x 10^4 ohm)
Surface to Surface (Earth) Rs Spec (BS-2050)	1E~9E+2 Ω ~ 1E~9E+4 Ω (1-9 x 10^2 ohm ~ 9 x 10^4 ohm)
ESD Floor Main Checking Criteria & Spec: <u>Dissipative</u>	
Surface to Ground (Earth) Rg Spec (BS-2050)	1E~9E+5 Ω ~ 1E~9E+6 Ω (1-9 x 10^5 ohm ~ 9 x 10^6 ohm)
Surface to Surface (Earth) Rs Spec (BS-2050)	1E~9E+5 Ω ~ 1E~9E+6 Ω (1-9 x 10^5 ohm ~ 9 x 10^6 ohm)

*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 4.2 : 0.8
Number of coats	1 – 2 coats dependent on concrete porosity
Recommended Thickness	65 ± 20 µm DFT per coat
Theoretical Coverage	0.12 Kg/m²/coat (Diluted with 5% water by weight)
Dilution	Up to 5% of clean water to help better penetration and workability
Recoating time	Within 14-18 hrs @ 28°C
Pot Life (Working time)	30 mins @ 28°C
Substrate Temperature relative to dew point	≥ 3°C
Recommended application temperature range	Minimum 15°C Maximum 40°C
Relative Humidity	< 85%

SUBSTRATE REQUIREMENT

- 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

- Stir Part A mix for 30 seconds by using a suitable electrical stirrer (with 750 watt high power mixer), then pour all of Part B (Hardener) and mix both liquid parts thoroughly for 1 minute until a fully homogenous, then slowly add 5% of clean water while mixing continues for a further 1 minute 30 seconds until a fully homogenous mix has been achieved.
- 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

PACKAGING

Components	PART A (BASE)	PART B (HARDENER)
TOTAL 5 Kg	4.2	0.8

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)
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.