

TECHNICAL DATA SHEET FOR

FLOOR-PRO 308 SF EPOXY CLEAR

FLOOR-PRO 308 SF EPOXY CLEAR is a two-component, solvent-free low viscosity epoxy clear designed with excellent wetting, leveling and abrasion resistance with low yellowing properties

FEATURES

- Solvent-free, low odour
- Good yellowing resistance
- Excellent wetting and levelling
- High abrasion resistance

APPLICATION AREAS

- Ideal to be used as a clear abrasion resistance topcoat on decorative elements such as coloured flakes, quartz, or plain finishes
- As primer, binder and seal coat for FP 911 COLOUR DECORATIVE QUARTZ epoxy mortar system

PHYSICAL PROPERTIES

Chemical Composition	Solvent-free cycloaliphatic amine epoxy
Colour	Clear
Finish	High gloss
Density, mixed	1.10 ± 0.03 g/cm ³ @ 28°C
Viscosity, mixed	Approx. 500 - 700 mPas @ 28°C
Solid Content, mixed	100%

PERFORMANCE DATA

Adhesive strength	> 1.5 N/mm ² (Concrete failure) (ASTM D4541)
Compressive strength	> 120 N/mm ² (ASTM D695)
Flexural strength	> 70 N/mm ² (ASTM D790)
Compressive strength as epoxy mortar	> 37 N/mm ² (BS EN 13892-2)
Flexural strength as epoxy mortar	> 15 N/mm ² (BS EN 13892-2)
Taber Abraser Wear Index	< 40mg / 1000 revolutions / 1 Kg (ASTM D4060, CS-10) < 80mg / 1000 revolutions / 1 Kg (ASTM D4060, CS-17)
Shore D Hardness	> 75 (ASTM D2240)

*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 62 : 38
Number of coats	1 – 2 coats dependant on substrate
Recommended Thickness	Protective clear: 200 – 300 um DFT per coat Binder for epoxy mortar: 5 mm

Theoretical Coverage	Protective clear: 0.22 – 0.33 Kg/m ² /coat Primer for epoxy mortar: 0.40 – 0.60 Kg/m ² /coat Binder for FLOOR-PRO 911 DECORATIVE QUARTZ epoxy mortar system: 2.2 Kg/m ² /mm (1 part FLOOR-PRO 308 SF EPOXY CLEAR : 8 part FLOOR-PRO 911 DECORATIVE QUARTZ)
Recoating time	Within 12 – 24 hrs @ 28°C
Pot Life	25 mins @ 28°C
Curing time	30°C Foot traffic (hrs) 12 Light Traffic (days) 3 Exposure to chemicals (days) 7
Substrate Temperature relative to dew point	≥ 3°C
Recommended application temperature range	Minimum 15°C Maximum 35°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

Applying FLOOR-PRO 308 SF EPOXY CLEAR as protective clear

- To be applied on properly cleaned and tight decorative finishes.
- Add all the Part B(Hardener) into Part A (Base) and mix thoroughly for 2-3 minutes using a mechanical stirrer until homogeneous. Use a 300 – 500 rpm slow-speed drill, with a spiral mixing blade or Jiffy mixer. Move the mixing blade in circles around the inside edge of the pail from bottom to top. Transfer the mixed material to a clean container and mix for another minute. Avoid inclusion of air during the mixing process.
- Mixture is poured onto the surface in portions, may be applied by brush, roller or spray. Spread with a squeegee and back roll with a roller.
- Exposure of the paint film to water, chemical and abrasion should be avoided as far as possible before full cure of the coating.

FLOOR-PRO 911 DECORATIVE QUARTZ epoxy mortar system

Priming

- Prime the prepared concrete substrate with FLOOR-PRO 308 SF EPOXY CLEAR. Epoxy mortar shall be applied on to the primed concrete while the primer is still tacky which is within 1 hour of application

Epoxy mortar

- Mixture of FLOOR-PRO 308 SF EPOXY CLEAR with FLOOR-PRO 911 DECORATIVE QUARTZ at ratio of 1: 8 is recommended to achieve even distribution for layer thickness of 5mm
- Pour all FLOOR-PRO 308 SF EPOXY CLEAR Part B into the Part A container and mix both liquid parts thoroughly for 1 minute by using a suitable electrical stirrer (with 750 watt high power mixer) until a fully homogenous mix has been achieved.
- Transfer Part A & Part B (mixed) to a forced action mixer e.g. Create an angle and mix with FLOOR-PRO 911 DECORATIVE QUARTZ until uniform.
- Transfer the mixed material to a clean container and mix for another minute. Avoid inclusion of air during the mixing process.
- Apply the mixture within 1 hours of priming (i.e. while the priming coat is still tacky), and spread the screed onto the primer floor with screed box as per requirement thickness, compact and finish using a steel blade trowel or power float.

Sealing

- Apply one or two coats of FLOOR-PRO 308 SF EPOXY CLEAR mixed with 5 - 7% by weight of pyrogenic silica at 0.3 - 0.5 Kg/m²/coat to seal the porous surfaces.

Protective clear

- Apply one or two coats of FLOOR-PRO 308 SF EPOXY CLEAR as protective clear

PACKAGING

Components	PART A (BASE)	PART B (HARDENER)
TOTAL 10 Kg	6.2	3.8

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.

Components	PART A (BASE)	PART B (HARDENER)
Months	24	24

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.