

TECHNICAL DATA SHEET FOR

FLOOR-PRO 902 SF EPOXY RE-MORTAR

FLOOR-PRO 902 SF EPOXY RE-MORTAR is two-component, solvent-free epoxy mortar. It is specially premixed with graded aggregates, epoxy resins and additives to provide a high strength and chemically resistant mortar. The base and hardener are formulated in different colours to provide visual confirmation of adequate and proper mixing on site.

FEATURES

- Solvent-free
- Fast cure - by chemical reaction
- High compressive and tensile strength
- Impermeable to water, oil, petrol, chemical spillage
- Excellent chemical resistance

APPLICATION AREAS

- Repair of damaged precast concrete building units
- Repair of spalled or honeycombed vertical surfaces and protecting exposed reinforcement
- Repair of cracked concrete piles
- Grouting of tile joints in commercial & hotel, food & hygienic areas, swimming pools, industrial work areas
- Bedding applications – bridge bearing pads and mounting of heavy plant and machinery
- General repair works – bonds different materials
- Underwater applications – replacing slip tiles repairing submerged steel work and concrete where reinforcement has been exposed
- Repair and reinstating structures exposed to heavy battering of the sea, such as seawalls and concrete jetties

PHYSICAL PROPERTIES

Chemical Composition	High strength epoxy resin mortar
Colour	White paste (Part A) Soft Black Paste (Part B) Grey (Mixed)
Density	2.20 ± 0.06 g/cm ³ (Part A) 1.85 ± 0.06 g/cm ³ (Part B)

PERFORMANCE DATA

Compressive Strength	>60 N/mm ² @ 7 days (ASTM C579)
Tensile strength	>13.8 N/mm ² (ASTM C307)
Water immersion	May be applied and cured underwater

*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 3 : 1
Recommended Thickness	1-20 mm
Theoretical Coverage	1.85 – 1.95 kg/m ² /mm
Pot life (Working time)	30 mins @ 28°C
Full curing time	7 ± 2 days at 25 ± 3°C
Substrate Temperature relative to dew point	≥ 3°C
Relative Humidity	< 85%

SUBSTRATE REQUIREMENTS

For Concrete and Ceramic

- 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

- As with all concrete repairs, it is essential to remove all grease, oil, dust and other loose materials. Concrete substrates must be adequately prepared either by use of a suitable mechanical method such as scabbling, grit blasting or needle gunning.
- Mechanically clean concrete to remove loose, weak and contaminated surfaces and remove dust and debris. Ensure surfaces are dry and prime with Floor-Pro 106 SF Epoxy Primer. Allow to dry for 12 hours before firmly applying FLOOR-PRO 902 SF EPOXY RE-MORTAR. A smooth surface may be obtained with a damp or heated trowel.
- FLOOR-PRO 902 SF EPOXY RE-MORTAR may be used on wet surfaces but must thoroughly worked into the wet surface to obtain complete surface protection and adhesion.
- FLOOR-PRO 902 SF EPOXY RE-MORTAR should not be applied more than 20 mm thick in one application on vehicle surfaces, to prevent slumping. In most cases, where concrete surface is rough, no primer is required.

APPLICATION METHOD

Applying FLOOR-PRO 902 SF EPOXY RE-MORTAR

- Mix materials in the ratio of 3:1 by weight (Part A: Part B) until a homogenous colour is obtained (1 to 3 mins). For large quantities, mechanical mixer should be used, for small quantity, it can be hand mixed.

For Underwater Application

- Surfaces must be mechanically cleaned, free of weak or loose material, marine growth, rust, scale, etc.
- Mixed FLOOR-PRO 902 SF EPOXY RE-MORTAR should be carried in plastic bags to work area in small quantities, approximately 5 mm thick, pressed into position ensuring that all water is expelled from between the repair surface and the FLOOR-PRO 902 SF EPOXY RE-MORTAR
- Mixed mortar should be applied within 30 minutes of mixing. Contact between the mixed mortar and water should be avoided until the point of application. Uncured material should be protected from scouring and displacement by moving water until cured

PACKAGING		
Components	PART A (BASE)	PART B (HARDENER)
TOTAL 3 Kg	2.25	0.75
TOTAL 12 Kg	9	3

STORAGE AND SHELF LIFE		
<p>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)</p>		
Components	PART A (BASE)	PART B (HARDENER)
Months	12	12

SAFETY PRECAUTION	
<ul style="list-style-type: none"> ▪ 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
<p>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.</p>