

TECHNICAL DATA SHEET FOR

FLOOR-PRO 907 SF EPOXY BONDING AGENT

FLOOR-PRO 907 SF EPOXY BONDING AGENT is a solvent-free, two-component epoxy bonding agent that provides outstanding adhesion to a wide range of substrates such as concrete, masonry, metal and wood. It is ideal for various repair application such as bonding new concrete or mortar to old concrete.

FEATURES

- High mechanical strength
- Excellent adhesion to a wide range of substrates
- Outstanding resistance against water and chemicals
- Negligible shrinkage

APPLICATION AREAS

- Used at construction joints for the structural reinforcement of beams and on decayed industrial flooring
- Sealing cracks in cement screeds, bonding of concrete crack repairing by V-cut method
- For grouting or anchoring and bonding steel to concrete
- For monolithic construction joints between fresh and hardened concrete

PHYSICAL PROPERTIES

Chemical Composition	Solvent-free epoxy resin compound
Colour, mixed	Standard Grey
Density, mixed (28°C)	1.55 g/cm ³
Viscosity, mixed (28°C)	2900 cPs
Solid Content, mixed	100 % (By weight)

PERFORMANCE DATA

Adhesive strength	> 1.5 N/mm ² (Concrete failure) (ASTM D7234)
Compressive strength	> 70 N/mm ² (ASTM D695)
Flexural strength	> 40 N/mm ² (ASTM D790)
Slant shear bond strength	> 20 N/mm ² (Concrete failure) (BS EN 12615)

*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 : 1
No of coats	1 coat
Recommended Thickness	Min 100 µm DFT per coat, thickness depends on substrate porosity
Consumption rate	0.50 – 0.60 Kg/m ²
Recoating time	Apply subsequent layer when tacky; within one hour
Pot Life (Working time)	20 mins @ 28°C
Complete hardening time	7 days

Substrate Temperature relative to dew point	≥ 3°C
Recommended application temperature range	Minimum 5°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.
- 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 907 SF EPOXY BONDING AGENT

- Mix Part A and Part B separately for 30 seconds using a suitable mechanical mixer at low speed (approx. 300 - 500 rpm).
- Add all the Part B into the Part A thoroughly for 1 minute. Transfer the mixed material to a clean container and mix for another minute. Avoid inclusion of air during the mixing process.
- Apply the epoxy mix by roller or brush on both horizontal and vertical surfaces.
- Place subsequent layer while FLOOR-PRO 907 EPOXY BONDING AGENT is tacky

PACKAGING

Components	PART A (BASE)	PART B (HARDENER)
TOTAL 5 Kg	4	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)
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.