

TECHNICAL DATA SHEET FOR

FLOOR-PRO 307 SF EPOXY FINISH

FLOOR-PRO 307 SF EPOXY FINISH is a three-component solvent-free high grade epoxy coating. It is to be used on primed floor as a chemical, oil and abrasion resistance finishing coating

FEATURES

- Solvent free, low odour
- High compressive strength
- High wear, abrasion and impact resistance
- High acid and alkaline resistance
- Excellent water resistance
- Dust free, easy cleaning and maintenance
- Can be designed as an anti-slip system

APPLICATION AREAS

- FLOOR-PRO 307 SF EPOXY FINISH is used as coloured coatings for surfaces with light mechanical stress and traffic or heavy duty with epoxy mortar combinations
- Areas which require high oil and abrasive resistance against high vehicular traffic and load such as industrial surfaces, storage rooms, garage floors, pedestrian areas, technical centres and others

PHYSICAL PROPERTIES

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| Chemical Composition | Solvent-free modified cycloaliphatic epoxy |
| Colour | As per standard colours |
| Density, mixed | 1.40 ± 0.05 g/cm ³ @28°C |
| Viscosity, mixed | Approx. 2000 – 3000 mPa.s @28°C |
| Solid Content, mixed | 100% |

PERFORMANCE DATA

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|--------------------------|---|
| Adhesive strength | > 1.5 N/mm ² (Concrete failure) (ASTM D4541) |
| Compressive Strength | > 85 N/mm ² (ASTM C579) |
| Flexural Strength | > 40 N/mm ² (ASTM 580) |
| Taber Abraser Wear Index | < 80mg / 1000 revolutions (ASTM D4060, CS-17) |
| Shore D Hardness | > 80 (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

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| Mixing Ratio (by weight) | Part A : Part B : Part C 3.7 : 1.3 : 3 |
| Number of coats | 2 coats |
| Recommended Thickness | 200 - 300 µm per coat |
| Theoretical Coverage | 0.3 kg/m ² – 1 st coat 0.2 kg/m ² – 2 nd coat |

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|---|---|--|------|--------------------|----|----------------------|---|------------------------------|---|
| Recoating time | Within 12 – 24 hrs @ 28°C | | | | | | | | |
| Pot Life (Working time) | 20 mins @ 28°C | | | | | | | | |
| Curing time | <table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: right;">30°C</td> </tr> <tr> <td>Foot traffic (hrs)</td> <td style="text-align: right;">12</td> </tr> <tr> <td>Light Traffic (days)</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Exposure to chemicals (days)</td> <td style="text-align: right;">7</td> </tr> </table> | | 30°C | Foot traffic (hrs) | 12 | Light Traffic (days) | 3 | Exposure to chemicals (days) | 7 |
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| 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 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 (eg: plinth, column, drains etc.)

APPLICATION METHOD

Applying Primer

- FLOOR-PRO 106 SF EPOXY PRIMER is the recommended primer. Refer to the product TDS for details application method.

Applying FLOOR-PRO 307 SF EPOXY FINISH

- Mix Part A and Part B separately for 30 seconds using a suitable mechanical mixer at low speed (approx. 300 - 500 rpm).
- Charge Part C into Part A and mix until homogenous.
- Add all the Part B (Hardener) into the mixture thoroughly for 1 minute. Avoid inclusion of air during the mixing process.
- Pour the mixed material onto the primed substrate in portion, and spread with a squeegee and back roll with a roller.

Over-coating of FLOOR-PRO 307 SF EPOXY FINISH

- Over-coating the previous coat should be done within 1 day but preferably as soon as possible after it has been allowed for minimum of 12 hours drying.
- Exposure of the paint film to water, chemical and abrasion should be avoided as far as possible before full

cure of the coating.

| PACKAGING | | | |
|------------|---------------|-------------------|-----------------|
| Components | PART A (BASE) | PART B (HARDENER) | PART C (FILLER) |
| TOTAL 8 Kg | 3.7 | 1.3 | 3.0 |

| 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) | PART C (FILLER) |
| Months | 12 | 12 | 12 |

| SAFETY PRECAUTION | | | |
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| <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 | | | |
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| <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> | | | |