

**FLOORSHIELD UCREEED DP PRIMER** Two Component Solvent-free Epoxy

*Updated Jul '23*

**FLOORSHIELD UCREEED DP PRIMER** is a two-component solvent free moisture tolerant epoxy primer that cures completely even under the presence of moisture. It is designed with medium viscosity, fast cured and excellent adhesion properties on damp concrete substrate. It is also designed to be primer for FLOORSHIELD UCREEED COVING.

*Note: It should not be used on concrete with high hydrostatic or osmotic pressure.*

**Product Features:**

- Damp tolerant with moisture when during application
- Good adhesion on damp concrete surfaces.
- Deep penetrating into concrete substrate
- Compatible with wide range of topcoats.
- Low odor during application
- Fast curing

| Paint Type   | Product Type        | Finishing | Recommended Substrate | Pack Size                    |
|--------------|---------------------|-----------|-----------------------|------------------------------|
| Solvent free | Interior & Exterior | Gloss     | Floor Concrete        | Part A: 8 KG<br>Part B: 2 KG |

**Technical Data**

|                    |   |
|--------------------|---|
| Colour             | : Off White   |
| Solid Content      | : 100%  |
| Density            | : 1.10 kg/L   |
| Touch Dry (28°C)   | : 3 hours   |
| Shelf-life         | : 24 months (tightly sealed and properly stored)                    |
| Mixing Ratio       | : 8: 2 (by weight)  |
| Pot-life (28C)     | : 40 mins   |
| Consumption        | : 0.25 kg/m <sup>2</sup> per coat                                   |
| Dry Film Thickness | : 180µm ± 30µm  |
| No of coats        | : 1 coat  |
| Walk on Time       | : 6 hours   |
| Cleaning Solvent   | : Nippon Paint SA-65 Thinner  |
| Adhesion Strength  | : Concrete cohesive failure at >2.0N/mm <sup>2</sup> . (ASTM D4541) |

**Recommendation System**
FLOORSHIELD Epoxy System:

|         |  |
|---------|--|
| Primer  | : <b>FLOORSHIELD UCREEED DP PRIMER</b> |
| Topcoat | : FLOORSHIELD SF EPOXY FINISH          |

FLOORSHIELD Ucreed Coving System:

|              |   |
|--------------|---|
| Primer       | : <b>FLOORSHIELD UCREEED DP PRIMER</b> (wet to wet) |
| Intermediate | : FLOORSHIELD UCREEED COVING                        |
| Topcoat      | : FLOORSHIELD UCREEED TC (1-2 coats)                |

**Application Method**

|                       |   |
|-----------------------|---|
| Substrate Requirement | <ul style="list-style-type: none"> <li>• Concrete or screed substrate compressive strength should be of minimum 25 N/mm<sup>2</sup> and adhesive pull off strength of 1.5 N/mm<sup>2</sup>.</li> <li>• The moisture content of concrete shall be &lt; 4% according to ASTM F2659, measured by Tramex meter. It shall be free from rising damp and must be waterproofed against negative ground water pressure. Concrete substrate must be clean, free of laitance and contaminants</li> </ul> |
|-----------------------|---|

|                     |  |
|---------------------|--|
| Surface Preparation | <ul style="list-style-type: none"> <li>• Concrete substrate must be clean, free of laitance and contaminants.</li> <li>• 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.</li> <li>• In the event the moisture content is &gt; 4%, <b>FLOORSHIELD SF EPOXY MORTAR</b> may be applied as moisture barrier system, seal the porosity with <b>FLOORSHIELD SF EPOXY OP TEXTURE WHITE</b>.</li> </ul> |
| Mixing              | <ul style="list-style-type: none"> <li>• Allow to cure over-night before the application of subsequent coating system.</li> <li>• Stir Part A for 30 seconds by using a suitable electrical stirrer (with 750watt high power mixer).</li> <li>• Pour all of Part B into the Part A container, stir the mixture for another two minutes until a fully homogenous mixture has been achieved.</li> </ul>  |
| Application         | <ul style="list-style-type: none"> <li>• Apply FLOORSHIELD UCREED DP PRIMER by using suitable roller, brush or trowel and back-roll with a roller.</li> <li>• Apply within the pot life 40 minutes at 28°C.</li> <li>• Substrate temperature should not apply 5°C above the dew point.</li> </ul>  |

**Cleaning**

Clean up equipment with Nippon Paint SA-65 thinner immediately after use.

**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. The shelf life of Part A and Part B are 24 months.

**Environmental Conditions During Application**

Do not apply when the environment relative humidity exceeds 85%, or when the surface to be painted is less than 3°C above the dew point. Do not apply at temperature below 7°C and temperature above 40°C.

**Safety Precautions**

- Keep container tightly closed and keep out of reach children or away from food and drink.
- Ensure good ventilation during application and drying.
- When applying paint, it is advisable to wear eye protection.
- In case of contact with eye, rinse with plenty of water immediately and seek medical advice.
- Remove splashes from skin by using soap or water.
- Paint must always be stored in a cool place.
- When transporting paint, care must be taken. Always keep container in a secure upright position.
- Dispose off any paint waste in accordance with the appropriate Environment Quality Regulations.

**Note**

\* Theoretical Coverage is based on a mathematical formula

$$\left[ \frac{\text{Volume Solid \%} \times 10}{\text{Dry Film Thickness}} \right] = \text{m}^2/\text{lit}/\text{coat}$$

and does not consider LOSS FACTORS.  
Variables like porosity of substrate, application method, dilution ratio, dry film thickness, opacity and so on will affect the loss factor and can vary from 30% - 50% or even more.

The above information is given to the best of our knowledge based on laboratory tests and practical experience. However, since we cannot anticipate or control the many conditions under which our products may be used, we can only guarantee the quality of the product itself.  
We reserve the right to alter the given without prior notice.