

AQUAPRIME EPOXY PRIMER Two Component Water-Based Epoxy Primer

Updated May'23

AQUAPRIME EPOXY PRIMER is a two-component water dispersed primer base on epoxy resin and polyamide hardener. It is moisture tolerant, with less sensitive to dampness during application.

Product Features:

- Excellent bond strength to concrete surfaces.
- Moisture tolerant to damp substrates during application.
- Zero VOC and environmentally friendly.
- Easy to apply.

Application Area:

- Red: As primer for **FLOORSHIELD UCREEED MD, FLOORSHIELD UCREEED HD** and **FLOORSHIELD ECC**.
- Off White: As overcoating on top of **FLOORSHIELD ECC**, before finishing coat.

Product Type	Product Type	Colour / Finishing	Recommended Substrate	Pack Size
Water-based Epoxy	Primer	Red / Off White (Gloss Finish)	Floor concrete	Part A: 8.0kg Part B: 2.0kg

Technical Data

Density (28°C), kg/L	: 1.00
Viscosity (28°C), cps	: 1300-1700
Solid Content, %	: 63-67
Application Thickness, um	: 130-170 (dry film thickness)
Number of coats	: 1-2
Mixing Ratio	: 8:2 (by weight)
Material Consumption, kg/m ²	: 0.25
Coverage @ 150um per coat, m ² /kg	: 5
Pot-life @ 28°C, min	: 30
Packing Size, kg	: 10
Recoating time @28°C, hours	: within 14-18
Shelf life	: 12 months (In unopened container and good conditions with 5°C to 30°C)
Color Available	: Red and Off White

Performance Data

Bond Strength, MPa	: > 2.0 (concrete failure)
--------------------	----------------------------

Recommended System
Temporary Moisture Barrier System

Primer	: AQUAPRIME EPOXY PRIMER – RED (150 µm)
Underlayment	: FLOORSHIELD ECC (2mm-4mm)
Overcoat	: AQUAPRIME EPOXY PRIMER – OFF WHITE (150 µm)
Finishing Coat	: AQUA EPOXY / FLOORSHIELD SF EPOXY FINISH

PU Screed System

Primer	: AQUAPRIME EPOXY PRIMER – RED (150 µm)
Finishing Coat	: FLOORSHIELD UCREEED MD/ FLOORSHIELD UCREEED HD

Application Method

Substrate Requirement	<ul style="list-style-type: none"> • Concrete or screed substrate compressive strength should be of minimum 25 N/mm² and adhesive pull off strength of 1.5 N/mm² (concrete failure).
-----------------------	---

Surface Preparation	<ul style="list-style-type: none"> The substrate must be thoroughly clean and without standing water, free from dust, grease, and oil. All the contaminants, previous coatings and impurity must be removed till bare substrate. Rough contaminants and high spots should be removed by grinding. Any cracks, honey combs, water leakage area should be repaired by Nippon Paint Repair System (for more detail, please refer to Nippon Paint Technical Department) before the flooring work proceed. The concrete surface should be flat and free from holes and undulations. Any holes and undulations should be resurfacing with Nippon Paint Scratch Coat System. The concrete surface shall be prepared by mechanical using abrasive blasting or scarifying equipment to remove cement laitance and achieve required surface profile. Remove all loose material and dust by vacuum or mechanical means.
Mixing	<ul style="list-style-type: none"> Mix Part A for 30 seconds by using a suitable electrical stirrer (with 750 watt high power mixer), then add all of Part B (Hardener) into Part A, and mix for another 1-2 minutes until homogeneous mixture is achieved. 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.
Application	<ul style="list-style-type: none"> Apply AQUAPRIME EPOXY PRIMER by brush, roller or trowel and back-rolling with a roller. On porous and heavily absorbent concretes, additional coat is advisable. AQUAPRIME EPOXY PRIMER should be applied within the pot-life of 30 minutes. at 28°C.
Cleaning	
Clean all the tools and application equipment with water before the products harden.	
Storage and Transportation	
This product should be stored in original container in a shaded or cool and adequate ventilation warehouse. The storage temperature should be 5-30°C. This product should be away exposure from rain, UV, sunlight, source of flame and heat. When transporting, care must be taken. Failure to comply with the recommended storage may result in considerable premature deterioration of the product and shorten its shelf life.	
Environmental Conditions During Application	
Apply temperature: 5-40°C. Do not apply when the surface to be applied is less than 3°C above the dew point. Temperatures should not fall below 5°C in the 24hours after application. Do not apply when relative humidity exceeds 90%.	
Safety Precautions	
<ul style="list-style-type: none"> 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	
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.	