

FLOORSHIELD WB PU CLEAR MATT Two Component Water-Based PU Clear Coat

Updated May'24

FLOORSHIELD WB PU CLEAR MATT is a two-component water-based polyurethane dispersion clear coat designed to provide a very thin, clear matt finishing layer. This clear coat is suitable to be applied on top of gloss finishing floor coating, transforming the finishing to clear matt finish.

Product Features:

- Low odour, user friendly.
- Provides even matt finishing.
- Easy to apply.
- Low coverage / usage of paint

Product Type	Product Type	Colour / Finishing	Recommended Substrate	Pack Size
Water-based	Interior & Exterior	Clear / Matt	Floor concrete	Part A: 5.6 kg Part B: 1.4 kg

Technical Data

Density (28°C)	: 1.050 kg/L
Solid Content	: 40 – 45% (by volume)
Application Thickness	: 20 µm (dry film thickness) per coat
Number of coats	: 1 – 2 coats
Mixing Ratio	: 4: 1 (by weight)
Material Consumption, kg/m ²	: 0.05 kg/m ² /coat
Pot-life @ 25°C	: 3 hours
Packing Size	: 5 kg
Recoating time @28°C, hours	: 12 hours
Shelf life	: 24 months (In unopened container and good conditions with 5°C to 30°C)

Recommended System

Top Coat	: FLOORSHIELD SF EPOXY FINISH / FLOORSHIELD SL1 EPOXY FINISH / FLOORSHIELD SL2 EPOXY FINISH / FLOORSHIELD SB PU FINISH
Clear Coat	: FLOORSHIELD WB PU CLEAR MATT

Note: FloorShield WB PU Clear Matt can only be overcoated for interior areas on systems using FloorShield SF Epoxy Finish / FloorShield SL1 Epoxy Finish / FloorShield SL2 Epoxy Finish as the top coat.

Application Method

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 (concrete failure) • The moisture content of concrete shall be < 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
Surface Preparation	• 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 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

Mixing	surface profile. Remove all loose material and dust by vacuum or mechanical means. • FLOORSHIELD WB PU CLEAR MATT is supplied in proportionate quantities in 2-components. • The entire contents of the Component A are mixed and poured into a clean mixing barrel. Then empty Component B into the mixing barrel and mix homogeneously for at least 2–3 minutes using a mechanical stirrer. • Use a 300 - 500 rpm slow-speed drill, with a spiral mixing blade or Jiffy mixer. Move the mixing blade in circles around the inside edge of the pail from bottom to top. The inclusion of air in the stirring process must be avoided.
Application	• Apply FLOORSHIELD WB PU CLEAR MATT by brush or roller. Additional coats are advisable in order to achieve more even finishing.

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 24 hours after application. Do not apply when relative humidity exceeds 90%.

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.