

TECHNICAL DATA SHEET

NIPPON FLOORSHIELD SF PU PRIMER Two Component Solvent-free Polyurethane

Updated April 21

NIPPON FLOORSHIELD SF PU PRIMER is a two-component solvent free 100% solid, tough and flexible polyurethane primer. It is to be used on prepared concrete or steel to provide penetration, wetting, and full system flexibility to complement flexible body and top coat.

Product Features:

- Solvent free thus no solvent smell
- Resist cracks by being flexible & tough
- Excellent wetting of substrate
- Excellent adhesion for overlayment

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Solvent free	Interior & Exterior	Gloss	Floor Concrete	Part A: 5.8 kg Part B: 1.2 kg

Composition

Pigment : -

Binder : Polyol & Isocyanate

Thinner :-

Technical Data

Solid Content : 100% Density : 1.40 kg/L

Viscosity : approximately 1500 mPas

Shelf-life : 24 months at 30°C (tightly sealed and properly stored)

Mixing Ratio : 5.8 : 1.2 (by weight)

Pot-life (30°C) : 20 minutes Application : 15-35°C

temperature

Consumption : 0.40-0.50 kg/m² per coat

This theoretical coverage rate has been calculated from the volume solids of the material and is related to the amount of coating applied onto a perfectly smooth surface without wastage. For a practical coverage rate, due allowance should be made for atmospheric conditions, surface roughness, geometry of the article being coated, the skill of applicator, method of application etc. when estimating quantities required for a particular job.

No of coats : 1-2 coat dependant on substrate

Recoat Time : 12 hours Walk on Time : 12 hours

Cleaning Solvent : Nippon PU Recoatable Thinner

Adhesion Strength : Concrete cohesive failure at > 1.5N/mm² (ASTM D4541)

Application Method

Surface Preparation : NIPPON FLOORSHIELD SF PU PRIMER is to be applied on primed concrete or broadcast finishes.

The broadcast layer should have clean and tight aggregates for encapsulation. Also, all traces of contaminants such as oils, fats, greases, paint residues, chemicals, algae and laitance should be

removed.

Application : NIPPON FLOORSHIELD SF PU PRIMER is supplied in proportionate quantities in 2-component

containers. The entire contents of the Component A is mixed and poured into a clean mixing barrel. Then empty Component B into the mixing barrel and mix homogeneously for at least 2 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.



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The mixture is poured onto the surface in portions and spread by squeegee and finished with a roller.

Overcoating

: Subsequent finishing or overlayment should be applied once the primer becomes tack-free but before the primer completely hardens which normally is within 24 hours.

Cleaning

Clean up equipment with thinner immediately after use.

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

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

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.