NIPPON FLOORSHIELD SB EPOXY PRIMER Two Component Solvent-base Epoxy

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NIPPON FLOORSHIELD SB EPOXY PRIMER is a two-component solvent based low viscosity epoxy primer modified for deep penetration into concrete substrate and enhanced with adhesion promoter for improved adhesion. It is to be used on prepared concrete to seal the porosity of concrete, provide deep penetration to enhance adhesion and re-strengthen weak concrete to prepare for polymer overlay.

Product Features:

- Low viscosity provides deep penetration
- Excellent bonding with adhesion promoter added
- Long open time
- Re-strengthen weak substrate

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Solvent base	Interior & Exterior	Gloss	Floor Concrete	Part A: 2.6 kg Part B: 2.4 kg

Composition

Pigment	: -
Binder	: Epoxy & Amine
Thinner	: -

Technical Data

Solid Content	: 50%
Density	: 0.94 kg/L
Viscosity	: approximately 40 mPas
Shelf-life	: 24 months at 30℃ (tightly sealed and properly stored)
Mixing Ratio	: 2.60 : 2.40 (by weight)
Pot-life (30C)	: 1 hour
Application temperature	: 15-35℃
Consumption	: 0.10 kg/m^2 per coat @ 40µm 0.20 kg/m^2 per coat @ 80µm 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 coat
Recoat Time (30℃)	: 3 hours
Walk on Time (30℃)	: 3 hours
Cleaning Solvent	: Nippon SA-65 Thinner
Adhesion Strength	: Concrete cohesive failure at >1.5N/mm^2 (ASTM D4541)

Application Method

Surface Preparation	: **NIPPON FLOORSHIELD SB EPOXY PRIMER** can be applied directly onto the substrate if the substrate moisture does not exceed max. 4 % by weight (measured electrically using Tramex CME). The surface should have an adhesive pull strength of minimum 1.5 N/mm² or compressive strength of minimum 25 N/mm^2. Also, all traces of contaminants such as oils, fats, greases, paint residues, chemicals, algae and laitance should be removed. Cracks and hollow spots must be properly repaired.
Application	**: NIPPON FLOORSHIELD SB EPOXY PRIMER** is supplied in proportionate quantities in 2-component containers. 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.

	The mixture is poured onto the surface in portions and spread with a roller. On porous and heavily absorbent concretes a second or third application is advisable.
Overcoating	: Subsequent finishing or overlayment should be applied once the primer becomes tack-free but before the primer completely hardens which is about within 4 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.