



NIPPON FLOORSHIELD SB EPOXY PRIMER

Product Description:

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.

Uses:

NIPPON FLOORSHIELD SB EPOXY PRIMER 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.

Benefits:

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

Physical Properties:

Solid Content	:60%
Density	:0.935 kg/L
Viscosity	:approx. 40 mPas
Packing Size	:5L
Colour	:Transparent
Shelf Life	: 24 months at 30C(tightly sealed and properly stored)

Performance Properties:

Adhesion (ASTM D4541) : Concrete cohesive failure at $>1.5\text{N/mm}^2$.

Application Properties:

Mixing Ratio (A:B)	: 100:90 (by wt)
Pot Life (30°C)	: 1~2 hours
Application Temperature	: 15~35C
Consumption	: 0.1~0.2kg/m ² per coat
No. Of Coat	: 1~3 dependant on substrate
Recoat time (30°C)	: 3 hours
Walk on time (30°C)	: 3 hours
Cleaning Solvent	: SA-65 Thinner

Note: 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.

Recommendation For Use:

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/mm². 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 is 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.

Safety, Health and Environmental Information:

In the wet state, this product is highly inflammable. Protect from extremes of temperature & store in a cool place. In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.

2. Keep away from sources of ignition. No smoking.
3. Keep container tightly closed and keep out of reach from children.
4. Do not breathe vapour/spray. Applying paint to large surface areas under closed environment should use air supplied breathing equipment. For small areas or short periods, a suitable cartridge mask should be worn.

Inhalation : Remove to fresh air, loosen collar and keep patient rested.

Ingestion : In case of accidental ingestion. DO NOT INDUCE VOMITING. Seek immediate medical attention.

5. Avoid contact with skin and eyes. Wear suitable protective coating such as overalls, goggles, dust masks and gloves. Use a barrier cream.

Eyes : In the event of accidental splashes, flush eyes with water immediately and obtain medical advice.

Skin : Wash skin thoroughly with soap and water or approved industrial cleaner. DO NOT USE solvent or thinners.

6. Care must be taken when transporting paint. Keep container in a secure upright position.
7. Do not empty into drains or watercourses. Dispose of any paint waste in accordance with the appropriate Environmental Quality Regulations.

Note: A Material Safety Data Sheet (MSDS) is available upon request.

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 accuracy of our information or the suitability of our products in any given condition. We reserve the right to alter the given data without notice.