



NIPPON FLOORSHIELD SB PU FINISH

Product Description:

NIPPON FLOORSHIELD SB PU FINISH is a high solid aliphatic polyurethane top coat developed to provide a highly durable, colour retention and luxurious gloss or satin in various coloured or clear finishes, incorporating an extensive range of performance characteristics.

Uses:

NIPPON FLOORSHIELD SB PU FINISH is to be applied over proven and durable systems, offers an outstanding operational performance including abrasion, chemical and impact resistance and colour retention in indoor and outdoor exposures especially in car parks, walk ways, and dry processing environments.

Benefits:

- Low viscosity provides excellent wetting and over-coating adhesion.
- Highly abrasion resistance
- Excellent resistance to fuel, engine oil, and cleaning chemicals.
- Long open time
- UV Resistance - ideal for external exposures

Physical Properties:

Solid Content	:60%
Density	:1.1 kg/L
Viscosity	:approx. 2250 mPas
Packing Size	:5kgs
Colour	:Various colours or clear
Shelf Life	:24 months at 30C(tightly sealed and properly stored)

Performance Properties:

Adhesion (ASTM D4541)	: Concrete cohesive failure at $>1.5\text{N/mm}^2$.
Abrasion Resistance (ASTM D4060)	: <80 mg/1000cycle

Application Properties:

Mixing Ratio (A:B)	: 100:20 (by wt)
Pot Life (30°C)	: 1 hours
Application Temperature	: 15~35C
Consumption	: 0.1~0.15kg/m ² per coat
No. Of Coat	: 1~3 dependant on substrate
Recoat time	: 15 hours
Walk on time	: 15 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 PU FINISH 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 on the substrate or body coats such as oils, fats, greases, paint residues, chemicals, algae and laitance should be removed.

Application:

NIPPON FLOORSHIELD SB PU FINISH 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 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 substrate a second or third application is advisable.

Overcoating:

Subsequent finishing or overlayment should be applied once the 1st coat becomes tack-free but before the completely hardens which is about within 24 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 Chemical Safety Data Sheet (CSDS) 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.