



## NIPPON FLOORSHIELD SF EPOXY MORTAR

### Product Description:

**NIPPON FLOORSHIELD SF EPOXY MORTAR** is a 3 component shrinkage free 100% solid underlayment that provides impact resistance in heavy duty usages and permanent anti-osmosis system that out performs all the temporary cementitious epoxy moisture barrier (TMB).

### Uses:

**NIPPON FLOORSHIELD SF EPOXY MORTAR** is an ideal system in heavy duty high impact production and warehouse floors especially in lowest basement car parks such as Basement 6~7 where the hydrostatic pressure is greatest where conventional cementitious epoxy moisture barrier fails.

### Benefits:

- Solvent free thus no solvent smell
- Impact resistance
- 100% Solid thus zero shrinkage
- Reduces moisture to <2% wt/wt as early as 15 hours for over-coating.
- Excellent adhesion for over-layment
- Independent of air-drift or environment moisture

### Physical Properties:

<b>Solid Content</b>	: 100%
<b>Density</b>	: 1.9 kg/l
<b>Packing Size</b>	: 20 kgs
<b>Colour</b>	: Amber
<b>Shelf Life</b>	: 24 months at 30C(tightly sealed and properly stored)

### Performance Properties:

<b>Adhesion (ASTM D4541)</b>	: Concrete cohesive failure at >1.5N/mm <sup>2</sup> .
<b>Compressive Strength (ASTM C579)</b>	: >40 MPa
<b>Flexural Strength (ASTM 580)</b>	: >20 MPa
<b>Shore D Hardness (ASTM D2240)</b>	: >70

### Application Properties:

<b>Mixing Ratio (A:B:C)</b>	: 1.18:0.64:18.2 (by wt)
<b>Pot Life (30°C)</b>	: 25 mins
<b>Application Temperature</b>	: 15~35°C
<b>Consumption</b>	: 8.5 kg/m <sup>2</sup> /4mm
<b>No. Of Coat</b>	: 1
<b>Recoat time</b>	: 15~18 hrs
<b>Walk on time</b>	: 12 hrs
<b>Cleaning Solvent</b>	: 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 SF EPOXY MORTAR** is to be applied on primed concrete. Also, all traces of contaminants such as oils, fats, greases, paint residues, chemicals, algae and laitance should be removed.

#### **Application:**

**NIPPON FLOORSHIELD SF EPOXY MORTAR** is supplied in proportionate quantities in 3-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 mixed for 30 seconds with helical spinner and drill. 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. Transfer the mix into a screed mixer and charge in Component C and mix until homogeneous for 2 minutes. The mixture is poured into a screed box on the still tacky **NIPPON FLOORSHIELD SF EPOXY PRIMER** and pulled to distribute the semi-dry mix evenly. Pass over a power float to compact the screed to 4mm thickness. It is advisable the use low speed and light weight power float such as 35~50 rpm and about 55kg weight. Leave to cure for at least 15 hours prior to sealing the surface with **NIPPON FLOORSHIELD SF EPOXY OP TEXTURE FINISH**.

#### **Safety, Health and Environmental Information:**

Keep container tightly closed and keep out of reach from children. Avoid contact with skin and eyes. Wear suitable protective coating such as overalls, goggles, dust masks and gloves. Use a barrier cream. Care must be taken when transporting paint. Keep container in a secure upright position. Do not empty into drains or watercourses. Dispose of any paint waste in accordance with the appropriate Environmental Quality Regulations.

#### **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.*