



## NIPPON PENETRATIVE EPOXY PRIMER

### Product Description:

**NIPPON PENETRATIVE EPOXY PRIMER** is a two-pack amidoamine cured epoxy finish for use on concrete floor surfaces, which provide good adhesion to the substrate. Acid-treatment should be done prior to application. It is suitable for use as a tie coat between concrete substrate and solvent-based topcoat, such as **NP EA4 FINISH**.

### Physical Characteristics Of Paint:

<b>Colour</b>	: Yellowish Clear
<b>Texture</b>	: Gloss
<b>Specific Gravity</b>	: 0.90 - 1.00 kg/L (mixture of base and hardener)
<b>Solid Content</b>	: 30% by volume
<b>Adhesion</b>	: Excellent on correctly prepared surfaces.

### Recommendation For Use:

#### Surface Preparation:

##### Concrete Surface

The surface must be treated with about 5% sulphuric acid solution until effervescence has stopped. It should then be washed thoroughly with clean water and allowed to dry completely before coating with **Nippon Penetrative Epoxy Primer**.

<b>Recommended No. Of Coats</b>	: 1 coat
<b>Recommended Film Thickness Per Coat</b>	: 50 microns for dry film 165 microns for wet film
<b>Theoretical Coverage At Recommended Film Thickness</b>	: 6.25 m <sup>2</sup> /litre (for dry film thickness of 50 microns) $\text{Theoretical Coverage} = \frac{\text{Volume Solids (\%)} \times 10}{\text{Dry Film Thickness (\mu)}} \text{ (m}^2\text{/litre)}$
<b>Practical Coverage (20% Loss Factor)</b>	: 5.0 m <sup>2</sup> /litre (for dry film thickness of 50 microns)

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.

<b>Application Method</b>	: Brush and roller
Brush/Roller	: Good quality brushes and mohair/ short nap rollers should be used with full strokes. Avoid rebrushing.
<b>Thinning</b>	: Ready to use. No thinner required.
<b>Mixing Ratio</b>	: 4.3 parts by volume of <b>Nippon Penetrative Epoxy Primer (Base)</b> to 0.7 parts by volume of <b>Nippon Penetrative Epoxy Primer (Hardener)</b> . Stir the content of the base component, : continue stirring and gradually add the total contents of the hardener component, continue stirring until a homogeneous mix is obtained.
<b>Pot Life at 25°C to 30°C</b>	: 4 hours after mixing

<b>Thinner</b>	: No thinner required.
<b>Cleaning Solvent</b>	: SA-65 Thinner
<i>Note: All equipment should be cleaned IMMEDIATELY with thinner after use.</i>	

<b>Drying Time at 25°C to 30°C</b>	: Dry to touch - 2-3 hours
	: Dry to handle - 16 hours
	: Dry to overcoat - Minimum 16 hours
<b>Curing Time at 25°C to 30°C</b>	: 6-7 days

**Note:** Drying time will become remarkably delayed under low temperature. Overcoating the Nippon 2KE Epoxy Penetrative Primer with Solvent based topcoat should be done within 6 ~ 7 days but preferably as soon as possible after it has been allowed 16 hours drying or else, it is desirable to roughen it by dry sanding with sandpaper before it is overcoated. This is to ensure proper intercoat adhesion. Exposure of the paint film to water, chemical and abrasion should be avoided as far as possible before full cure of the coating. When chalking occurs, chalks should be removed by water washing. Allow the surface to dry thoroughly prior to overcoating.

<b>Standard Packing</b>	: 5 litres (4.3 litres Base and 0.7 litres Hardener)
<b>Shelf Life at 25°C to 30°C</b>	: 2 years

**Environmental Conditions During Application:**

1. Do not apply when the relative humidity exceeds 85% or when the surface to be coated is less than 3°C above the dew point.
2. Do not apply at temperature below 7°C. If not, drying and overcoating times will be considerably extended.
3. During application of the paint, naked flame, welding operations and smoking should not be allowed and adequate ventilation should be provided.

**Safety, Health and Environmental Information:**

1. 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.*