



NIPPON EA4 FINISH

Product Description:

NIPPON EA4 FINISH is a two-pack amine-adduct cured epoxy finish for use on steel and cement surfaces where chemical, oil and abrasion resistant coating is required. It is recommended for non-immersion services. If it is to be applied over steel, it has to be used in combination with the appropriate primers as recommended below. If it is to be applied over concrete the surface should be acid-treated prior to application. **NIPPON EA4 FINISH** is also available in non-skid quality.

Physical Characteristics Of Paint:

Colour	: As per colour card
Texture	: High Gloss
Specific Gravity	: 1.00 - 1.30, depending on colours
Solid Content	: 51 ± 3% by volume (ASTM D2697 1973)
Abrasion	: Good resistance to abrasion and mechanical damage
Adhesion	: Excellent on correctly prepared and primed surfaces
Temperature	: Dry service temperature range up to 100°C

Recommendation For Use:

Surface Preparation:

Steel Surface

When used as a top coat within a NIPPON protective system, the steel surface would have been prepared in accordance with the recommendations provided within the product data sheet of the primer being used. This will normally be abrasive blast cleaning to minimum **Sa 2½ ISO 8501-1:1988** or other equivalent international standard. The primed surface must be dry and free from any abrasive residues, dirt, oil and grease and other contaminants prior to painting.

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 EA4 Finish**.

Recommended No. Of Coats	: 1 - 3 coats
Recommended Film Thickness Per Coat	: 50 ~ 80 microns for dry film 100 ~ 160 microns for wet film
Theoretical Coverage At Recommended Film Thickness	: 10.2 m ² /litre (for dry film thickness of 50 microns) 6.4 m ² /litre (for dry film thickness of 80 microns)
	$\text{Theoretical Coverage} = \frac{\text{Volume Solids (\%)} \times 10}{\text{Dry Film Thickness (\mu)}} \text{ (m}^2\text{/litre)}$
Practical Coverage (20% Loss Factor)	: 8.2 m ² /litre (for dry film thickness of 50 microns) 5.1 m ² /litre (for dry film thickness of 80 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.

Application Methods	: Brush, roller, compressed air spray and airless spray. Preferably use airless spray if a thicker coat is required in one application. Brush, roller, compressed air spray generally lead to lower film thickness, so more applications may be required to obtain the recommended thickness per coat.
1) Brush/Roller	: Recommended for small areas and touch-up only. Good quality brushes and mohair/ short nap rollers should be used with full strokes. Avoid rebrushing. Thin up to 10% by volume of SA-65 Thinner for proper flow-out. Additional coats may be required to achieve minimum specified film thickness.
2) Spray	: When airless spray is being used, excessive high tip spraying pressure should be avoided. The minimum pressure at the pump conducive with good atomisation should be used.
Guiding Data For Airless Spray	: Delivery Pressure : 140-170 kg/cm ² : Tip Size : 0.015"-0.017" : Spray Angle : 60 - 70°
Thinning	: If necessary, add up to 5% thinner by volume for application by brush, roller and airless spray; about 10%-15% by volume for application by compressed air spray.
Mixing Ratio	: 4 parts by volume of Nippon EA4 Finish (Base) to 1 part by volume of Nippon EA4 Finish (Hardener) . 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.
Pot Life at 25°C to 30°C	: 6 - 8 hours after mixing

Thinner	: SA-65 Thinner
Cleaning Solvent	: SA-65 Thinner
<i>Note: All equipment should be cleaned IMMEDIATELY with thinner after use. For thinning, substitute thinners other than those approved or supplied by Nippon Paint may adversely affect the product performance and void product warranty whether expressed or implied.</i>	

Drying Time at 25°C to 30°C	: Dry to touch - 2-3 hours : Dry to handle - 16 hours : Dry to overcoat - Minimum 16 hours
Curing Time at 25°C to 30°C	: 6-7 days
Note: Drying time will become remarkably delayed under low temperature. Overcoating the previous coat of Nippon EA4 Finish 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.	

Standard Packing	: 5 litres (4.0 litres Base and 1.0 litre Hardener)
Shelf Life at 25°C to 30°C	: 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.