

NIPPON PAINT EA9 HOLDING PRIMER FD
Updated Aug'22

NIPPON PAINT EA9 HOLDING PRIMER FD is a two component, fast drying amine cure epoxy coating designed for use as a high-performance primer and finishing coat for many types of surfaces i.e. aluminium, EG, galvanising, steelwork, concrete and many plastic surfaces including Fibreglass Reinforced Plastic (GRP/ GFRP) and Phenolic sheeting. It has been extensively used as primer coat for ferrous and non-ferrous surfaces within the ACP, FRP/ GFRP, door and transport industry and offer a high degree of protection even in aggressive environments.

Product Features:

- Fast drying properties
- Able to use on a variety of substrates
- Available in Red Oxide, White and Grey colours

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Solvent based	Interior	Low Gloss As per colour card	Iron and Steel, Concrete, GRP/GFRP, Phenolic	5 L (4L Base and 1L Hardener) 20 L (16L Base and 4L Hardener)

Composition

Pigment	: Inorganic pigments and extender
Binder	: Epoxy and amine adduct
Thinner	: Combination of aromatic, ketone and alcohol

Technical Data

Drying Time (25-30°C)	: Touch Dry : 20 – 25 minutes
	: Hard Dry : 6 hours
Overcoating Time (25-30°C)	: Minimum 6 hours
Curing Time (25-30°C)	: Minimum 1 week for 35 – 50 µm (Dependent on temperature and humidity)
Typical Thickness	: 35 - 50 µm dry film per coat 125 – 178 µm wet film per coat
No. of Coats	: 1 - 2 coats
Theoretical Coverage	: 8.0 m ² /litre (for dry film thickness of 35 microns) 5.6 m ² /litre (for dry film thickness of 50 microns)
Practical Coverage (40% Loss Factor, as a guideline)	: 4.8 m ² /litre (for dry film thickness of 35 microns) 3.36 m ² /litre (for dry film thickness of 50 microns)
Volume Solid	: 28 ± 3% by volume
Specific Gravity	: 1.07 – 1.17
Mixing Ratio	: 4 parts by volume of Base to 1 part by volume of Hardener. (Base and Hardener to be mixed thoroughly)
Pot Life (25-30°C)	: 3 – 5 hours after mixing at 25°C – 30°C.
Shelf Life	: Up to 24 months in tight sealed container (Subjected to reinspection after exceeding shelf-life period)

Application Method

Thinner	: SA-65 Thinner.
Brush/ Roller	: If necessary, add about 5% thinner by volume.
Compressed Air Spray	: If necessary, add about 10% to 15% thinner by volume.
Airless Spray	: Delivery pressure : 140 – 170 kg/cm ² : Tip size : 0.015" – 0.017" : Spray angle : 60° - 70° : Dilution : Up to 5% thinner by volume

Recommended Coating System
Galvanized Steel / FRP /
GRP

Primer	: Nippon Paint EA9 Holding Primer	: 1 Coat
Top Coat	: Nippon Paint Polyurethane Recoatable Finish	: 2 Coats

Surface Preparation

EG, Galvanised, Aluminium & FRP/GRP Surfaces : Should be degreased with organic solvent like mineral turpentine/ thinner to **SSPC- SP1** and abraded the surface to be coated. The surface must be dry, clean and free from other contaminants before the paint are applied on.

Concrete Surfaces : All concrete surfaces should be clean, dry and free from loose dirt and laitance. Approved methods of preparation are: light abrasive blast cleaning, acid etching, scarifying, high pressure water jetting etc.

Steel Surfaces : For optimum performance, abrasive blasting in accordance to **Sa 2½ ISO 8501-1:2007** is desirable. Where abrasive blasting is not possible, mechanical cleaning to **St 3 ISO 8501-1:2007** standard is acceptable.

Cleaning

Cleaning Solvent : SA-65 Thinner. Clean up equipment with thinner immediately after use.

Environmental Conditions During Application

- 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.
- Do not apply at temperature below 7°C. If not, drying and overcoating times will be considerably extended.
- During application of the paint, naked flame, welding operations and smoking should not be allowed and good ventilation is necessary.

Safety Precautions

- Keep container tightly closed and keep out of reach children or away from food and drink.
- Ensure good ventilation during application and drying.
- During application of paint, naked flames, welding operation, and smoking should not be allowed.
- When applying paint, it is advisable to wear eye protection.
- In case of contact with eye, rinse with plenty of water immediately and seek medical advice.
- Remove splashes from skin by using soap or water.
- Paint must always be stored in a cool place.
- When transporting paint, care must be taken. Always keep container in a secure upright position.
- Dispose of any paint waste in accordance with the appropriate Environment Quality Regulations.

Note

* Theoretical Coverage is based on a mathematical formula and does not consider Loss Factor.

$$\left[\frac{\text{Volume Solid \%} \times 10}{\text{Dry Film Thickness } (\mu)} \right] = \text{m}^2/\text{lit}/\text{coat}$$

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.

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 quality of the product itself.

We reserve the right to alter the given without prior notice.

