

NIPPON PAINT EA9 WHITE PRIMER

NIPPON EA9 WHITE PRIMER is a two-pack, low gloss Amine Adduct Epoxy Primer specially developed to achieve long term corrosion protection for many types of surfaces i.e. aluminum, galvanizing, steel and concrete for corrosion environment. It can be used as intermediate or finish lining for storage tank of palm oil derivatives, vegetable oil, potable water, etc.

Physical Characteristics of Paint:

Colour	: White
Finish	: Low Gloss
Specific Gravity	: 1.30 ± 0.05 (for Mixture of Base & Hardener)
Solid Content	: 45 ± 2 by volume (for Mixture of Base & Hardener)
Abrasion	: Good resistance to abrasion and mechanical damage
Adhesion	: Excellent on correctly prepared surfaces
Chemical Resistance	: The fully cured coating offers outstanding resistance to aqueous solutions and a wide range of industrial chemicals, mild acids, crude oils, Jet fuel, fats, cutting oils, fruit juices, etc.
Weathering	: Not recommended for direct exposure to sunlight. It is always used as a base coat in conjunction with a Nippon Polyurethane finish coat.
Temperature	: Dry service temperature ranges up to 100°C

Technical Data

Drying Time (25–30°C)	: Touch Dry	: 1 hour (Dependent on temperature and humidity)
	: Hard Dry	: 4 – 5 hours (Dependent on temperature and humidity)
Overcoating Time (25–30°C)	: Minimum 16 hours (Dependent on temperature and humidity)	
Curing Time (25–30°C)	: 5 – 7 days (Dependent on temperature and humidity).	
No. of Coats	: 1 – 2 coats	
Recommended Thickness per coat	: 50 microns for dry film	
	: 111 microns for wet film	
Theoretical Coverage	: 9.0 m ² per litre per coat (for dry film thickness of 50 microns)	
Practical Coverage	: 7.2 m ² /litre (for dry film thickness of 50 microns)	
Application Methods	: Brush, roller, compressed air spray and airless spray	
Guiding Data for Spray	:	<u>Air</u>
	Delivery Pressure (kg/cm ²)	3 – 4
	Tip size at 60° angle	1.3 mm
Thinning	:	<u>Airless</u>
	Air Spray	140 – 170
	Airless Spray	0.015" – 0.017"
Thinner	: NIPPON SA 65 THINNER	
Mixing Ratio	: 9 parts by volume of NIPPON EA9 WHITE PRIMER (BASE) to 1 part by volume of NIPPON EA9 WHITE HARDENER. Stir the content of the BASE component, continue stirring and gradually add the total content of the HARDENER component, continue stirring until a homogeneous mix is obtained. Dilution should be done after the addition of hardener.	
Pot Life at 25°C to 30°C	: 6 – 7 hours after mixing, depending on prevailing temperature	

Surface Preparation

Mild Steel Surfaces

Abrasive blasted in accordance with Swedish Standard Sa 2.5, preferably Sa 3.0 (SIS 05 59 00 / ISO 8501-1). Shop prime immediately with a suitable shop-primer e.g. NIPPON ZINC PHOSPHATE BLAST PRIMER or NIPPON ZINC RICH PRIMER HS after abrasive blasting follows up with a compatible barrier coat or intermediate coat.

Galvanized Steel Surface

New galvanized surface requires to be degreased in accordance to SSPC-SPI. For old galvanized surface, it must be abraded to remove corrosion deposits. Shop-prime with a suitable etching primer e.g. NIPPON VINILEX 120 ACTIVE PRIMER. All surfaces must be dry and free from oil and grease prior to painting.

Aluminium and Stainless-Steel Surface

For optimum performance, the surface must be lightly abrasive blasted. If blasting is not possible, abrade with 120 grade paper, clean and dry prior to painting. Shop-prime with a suitable etching primer e.g. NIPPON VINILEX 120 ACTIVE PRIMER. All surfaces must be dry and free from oil and grease prior to painting.

Masonry and Cement Concrete Surface

Moisture Content must be below 6% checked by Sovereign Moisture Meter. Unstable matter such as powder, old paint film, dirt and loose plaster should be removed by high pressure water jet washing or mechanical means such as power brush or scraper whichever is suitable. High pressure water jet may be used for external wall. Contaminants, dust and foreign matter should be removed by cleaning with damp cloth. Oil or grease should be removed by solvent cleaning or mild detergent. Allow surface to dry again. After that prime with 1 coat of 20 to 40% thinned NIPPON EA9 WHITE PRIMER as sealer/priming coat.

New cement floor

Moisture Content must be below 6% checked by Sovereign Moisture Meter. Foreign and unstable matter such as powder, dirt, dust, contaminants and loose plaster should be removed by low pressure water jet washing. Oil or grease should be removed by solvent cleaning or mild detergent. Allow surface to dry again. After that apply with 1 coat of 40 to 50% thinned NIPPON EP4 CLEAR as a sealer coat and after that prime with 1 coat of 10 to 20% thinned NIPPON EA9 WHITE PRIMER as a primer coat.

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, Health and Environmental Information:

1. Flammable Liquid. Do not expose to heat, sparks or open flame.
2. Skin Contact: May cause moderate skin irritation. Avoid prolong contact with skin. Use solvent resistant glove. To remove splashes of paint from skin, use soap and water.
3. Inhalation: Respiratory irritation. Only used in well-ventilated areas. Do not breathe vapor or spray paint. Respirator with organic vapor cartridges recommended.
4. Eye Contact: Cause severe eye irritation and blurred vision. Safety glasses / goggles with side shields recommended. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
5. Ingestion: Harmful if swallowed. Keep away from drinks, food and out of reach of children. If swallowed, seek medical advice immediately and show the container or label.
6. In the event of an accident, contain and collect spillage using sand or earth or absorbent. Do not empty into drain or water courses.
7. Wastes and empty containers should be treated and disposed of in accordance with national and local regulations. Empty containers and packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor.

Note

The information given applies to the product and its performance under specific test conditions. Due to the varied circumstances beyond our control under which the product may be applied, for specific application, please contact Nippon Paint Sales & Marketing Dept. We reserve the right to modify our product data sheet without further notice.