

**CODE: EP-201**

**PRODUCT NAME:**

**Metals free Polyamide Epoxy Primer**

**DESCRIPTION:**

EP-201 is a two component amide cured epoxy primer containing corrosion inhibiting pigments. It cures to a strong and highly rust – preventing coat.

As a general purpose primer for Pedram systems on Aluminum , galvanized, , Stainless steel and metal surfaces in moderately to severely corrosive marine and industrial environment.

Recommended as primer in container systems.

**TECHNICAL DATA:**

Binder	Epoxy resin
Pigment	No inhibitive pigments Metals free
Finish	Flat
Shade	Green ,Red Brown , Grey , Cream
Specific gravity after mixing	1.3 ± 0.1 Kg/Lit
Volume solids	52 ± 3 %
Flash point	26 °C
Typical dry film thickness	30-75 Microns per one coat
Number of coat	One
Mixing ratio by weight	Base : 100 parts Hardener : 16 parts
Substrate	Blasted steel, Aluminum, galvanized surfaces, and Stainless steel.
Application method	Conventional or airless spray , brush , roller
Thinner / Cleaner	T-200
Weight of added thinner	5-15 %
Induction time at <25 °c	Maximum 10-15 minutes
Theoretical spreading rate - one coat ( at 30 microns)	17.3 M <sup>2</sup> /Lit
Packing	Base : 25 Kg Hardener : 4 Kg
Shelf life	Base: 12 Months Hardener :12 Months

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## Drying Time

Temp	Touch dry	Hard dry	Overcoating		Full cure
			Min	Max	
15°C	3 hours	26 hours	24 hours	60 days	12 days
25°C	2 hours	20 hours	18 hours	45 days	7 days
40°C	90 minutes	15 hours	12 hours	28 days	3 days

**Note:** Drying times are dependent on applied film thickness; all data in this catalogue are reported at recommended DFT.

## Pot life

Temp. of paint	15°C	25°C	40°C
Pot life	12 hours	8 hours	5 hours

## Surface preparation

All surfaces to be coated clean dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:1992.

Fresh water wash or fresh water wash with high pressure, as appropriate, and remove all oil or grease, soluble contaminants, and other detrimental foreign matter in accordance with SSPC-SP1 solvent cleaning.

Where necessary, remove weld spatter, and where required smooth weld seams and sharp edges.

Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

## Abrasive Blast cleaning

Abrasive blast clean to Sa2½ (ISO 8501-1:1988) or SSPC-SP10. If oxidation has occurred between blasting and application of EP-201, the surface should be reblasted to the specified visual standard

For thin layer systems a sharp, angular surface profile of 30-50 microns. is recommended. For heavy duty systems angular surface profile of 75-100 microns. is recommended.

-Surface preparation shall not take place in the following conditions:

- 1-At temperature below 5 °C
  - 2-When the relative humidity greater than 85%
  - 3-When the metal surface temperature is less than 3 °C above the dew point
  - 4-Outside day light hours on exterior locations
- Apply EP-201 as soon as possible after surface preparation to prevent rusting.

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## Application Method

Material is supplied in two containers as a unit. Always mix a complete unit in the proportion supplied. Once the unit has been mixed it must be used within the working Pot life specified.

1-Agitate part A with a power agitator.

2-Combined entire contents of curing agent (part B) With Base (Part A) and mix thoroughly with power agitator.

(Stir during application to maintain uniformity of material.)

## Application Equipments

Air less Spray	Tip range 0.017-0.021 inch Total output pressure at spray tip not less than 141 Bar (2000 psi)
Air Spray	Nozzle orifice :1.8-2.2mm Nozzle pressure:2-5 Bar (43-72 psi )
Brush	Typically 30-40 mic can be achieved.
Roller	Typically 30-40 mic can be achieved.

**Flush Equipment with recommended Cleaner before and after use.**

For heavily pitted areas should be stripe coated by brush, to ensure good wetting of the surface.

## **ENVIRONMENTAL CONDITIONS:**

- To prevent moisture condensation during application, surface temperature must be at least 3 °C above the dew point.
- Never apply coatings under reverse environmental condition.
- In hot climate, material temperature should be 20 to 25 °C prior to mixing; otherwise pot life becomes very short.
- For satisfactory cure, air and surface temperature must be above 10 °C
- Paint shall not be applied when wind speed is in excess of 7 m/s

Air temperature	10 to 40 °C
Surface temperature	10 to 50 °C
Material temperature	10 to 30 °C
Relative humidity	Max 80 %

## **Health and Safety:**

This product is Flammable. Keep away from heat and open flame .Keep container closed .Use with adequate ventilation. Avoid prolonged and repeated contact with skin. If used in confined areas, observe the following precautions to prevent hazards of fire or explosion or damage to the health:

1-Circulate adequate fresh air continuously during application and drying.

2-Use fresh air masks and explosion proof equipment.

3- Prohibit all flames, sparks, welding and smoking.

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