

For under coating on rusted surface

Power rust preventive EP039

NETIS registration No.KT-120046-A

**Maintenance and new equipment!
Drastic cost cutting!!**

**Easy to use, strong anti-rust,
super thick film!!
Even only badly rusted surfaces!!**

POWER RUST PREVENTIVE EP039 is a high solid epoxy primer that can build dry film thickness over 75u per coat for excellent resistance to friction, chemicals and moisture. EP039 is a 2-component modified polyamide epoxy primer that allows for a long recoating time up to 30 days. EP039 prevents rust and corrosion on steel, galvanized steel (both cold and hot dip), non-ferrous metals, and concrete. Furthermore, EP039 prevents concrete deterioration. EP039 is a high performance primer that is effective, economical and easy to use.



- ◆ **Thick coat up to 75u dry film thickness per coat. Cost down due to just one coating!!**
- ◆ **For various surfaces including steel, galvanized steel (both cold and hot dip), non-ferrous metals, concrete, etc.**
- ◆ **Very simple. Minimum surface preparation.**
- ◆ **Compatible with many topcoats.**
- ◆ **Easy 1:1 mix ratio.**
- ◆ **Excellent chemicals resistance and resistance to friction and moisture.**
- ◆ **Effectively stops rust in progress.**



Directions for use

1. Remove loose rust with a common tool such as a hammer. Then perform minimum surface preparation (SSPC-SP-2) with sandpaper or wire brush.
 2. Remove surface of all contaminants including dirt, chemicals, oil, grease, seawater, alkalis and acids. Rinse thoroughly with fresh water. Allow to dry completely.
 3. Thoroughly mix base component. Then, mix activator thoroughly.
 4. Mix base component and activator at 1:1 ratio. Thoroughly mix for 3 to 5 minutes.
 5. After using, wash equipment and containers with reducer or thinner.
- ※ Exposure to sunlight and the elements can cause fading, yellowing and chalking. But the corrosion resistance will not be adversely affected.
 - ※ Beware of low curing temperatures and condensation on the film while curing because they can cause blushing.

Cautions

- In most cases, AP089 can be applied immediately after mixing. In cold temperatures, allow 30 minutes before applying.
- Keep container closed when not in use. Activator must be used within 1-2 months.
- If necessary, reduce 5-10% with urethane reducer.
- Apply it at more than 10C within 80% humidity.
- Apply on edge and volt with brush beforehand.



10kg set (Base component/5kg, activator/5kg)
[Standard application amount] 159-265g/㎡
[Dry time] 16hrs (recoating time up to 30 days)

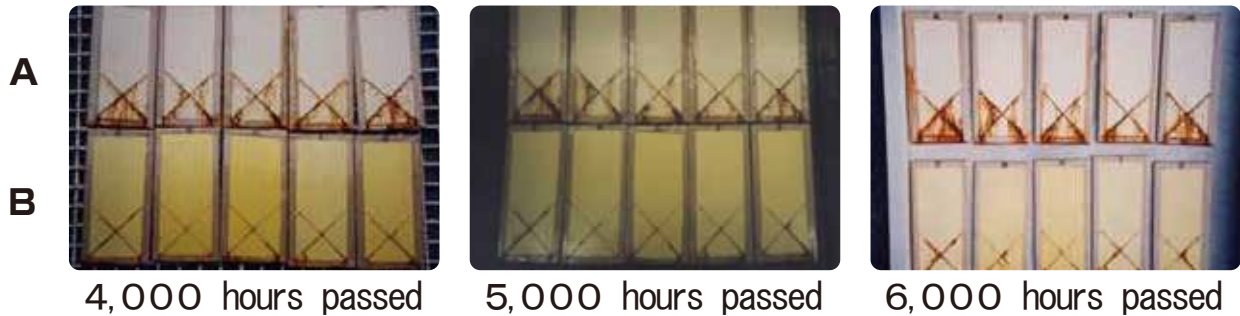
Formaldehyde Emission Standard Rating T18026
F☆☆☆☆ (For interior)

Salt Spray Test Results

Product : A (upper side) ordinary epoxy paint
B (lower side) EP039

Test method : JIS K5600-7.1

(35°C, spray 5% sodium chloride solution)



Substrates

Steel	○
Galvanized steel (both cold and hot dipped)	○
Aluminum	○
Stainless steel	○
Existing finish	○
Concrete	○

Proper Topcoats

2-component acrylic urethane	◎
2-component polyurethane	◎
Quick-drying acryl	◎
2-component urethane (weak solvent type)	◎
2-component fluorinated resin	◎
2-component silicone resin	○
1-component Urethane (weak solvent type)	○

Physical Properties

Item	Property
Appearance in Container	fluid
Standard application amount (g/m ²)	159g/m ² (75μ) ~ 265g/m ² (125μ)
Pot life 20°C-50°C	3h ~ 5h
Dry to Touch	4h ~ 6h
Recoat time	16h ~ 30days
Heat Resistance (dry film)	150°C
Shelf life	3 years

Standard Operation

Process	Recommended action
1. Surface Preparation	Remove all contaminants including rust, grease, water and dust with solvent or abrasive.
2. Undercoating	Apply Power preventive EP039 with brush or roller or Airless spray at thickness 75μ to 125μ
3. Dry time	Room temperature (20°C) at least 16h
4. Topcoating	Power preventive AP089 (modified Acryl polyurethane)

EP039 Test Result

Item	Property	Results
Impact Resistance	500 g 50cm with Du-pont impact test	Pass
Flexibility	10 mmφ (JIS-K-5400 8.1)	Pass
Heat Resistance (dry film)	150°C	Pass

EP039 Test Result (WHEN APPLY URETHANE TOPCOAT)

Item	Property	Results
Adhesion	2mm×2mm	100/100
Accelerated Weathering Resistance	Weather meter 2000 hours	No cracking, peeling, flaking.
Outside Exposure	Exposed outside for 5 years check second adhesion.	100/100
Alkaline Resistance With Calcium Hydroxide	Subjected to 5WT% aqueous solution for 1WEEK	No cracking, peeling, flaking.

Substrate : Steel plate (H type, C steel)

Topcoat : Power rust preventive AP089 (converted Acryl polyurethane)