

Directly on rusted surfaces

# Power rust preventive EP1000

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**Great cost performance!!**

**Excellent work efficiency!  
Just one coat!!  
Powerful rust preventive film!!**

Power preventive EP1000 can apply directly on various surfaces such as rusted surface, galvanized steel (cool and hot dipped), aluminum, concrete, tile, steel plate, chemical composition, existing finish. It can build dry film thickness over 75-150 $\mu$  per coat. Especially, it can adhere to serious rusted surface with minimum surface preparation. It is a high solid modified epoxy topcoat which provides VOC compliant and high penetration power.

- ◆ **Not required for undercoating and top coating!  
Excellent rust preventive with just EP1000**
- ◆ **Thick coat up to 75-150 $\mu$   
dry film thickness per coat.**
- ◆ **Minimum surface preparation (SSPC-SP-2).**
- ◆ **Excellent resistance to chemical,  
moisture and friction**
- ◆ **Can apply it as under coat. Compatible with  
many topcoats for various substrates.**



## 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. Mixing.
    - a. Thoroughly mix base component.
    - b. Thoroughly mix activator.
    - c. Mix base component and activator at 1:1.1 ratio by volume.  
Mix base component and activator at 1:1.25 ratio by volume.
    - d. Thoroughly mix for 3 to 5 minutes.
  4. Apply with airless spray, roller or brush.
  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, EP1000 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 10% by volume with urethane reducer.
- Apply it at more than 10C within 80% humidity.
- Apply on edge and volt with brush beforehand.



[Size] Light color : Base component/4.5kg, activator/5kg  
Deep color : Base component/4kg, activator/5kg

※ Mix ratio is changed depending on color. Please apply it after reading direction for use.

[Standard application amount] 160-320g/ m<sup>2</sup>

[Dry time] 16hrs (depending on temperature and humidity.)

Formaldehyde Emission Standard Rating T18027

F☆☆☆☆ (For interior)

## Reduces the time of work outstandingly!

It is said that it took very long time to apply ordinary anti-rust paint due to troublesome surface preparation. [EP1000] is very simple. Just minimal surface preparation (SSPC-SP-2). Undercoat is not needed. EP1000 can build dry film thickness over 75-150u per coat with strong anti-rust. It can allow work to be finished within just one day.

※ Exposure to sunlight and the elements can cause fading, yellowing and chalking. But the corrosion resistance will not be adversely affected.

Example) Multi-story parking story

	1 day	2day	3day
<b>Ordinary product</b>	Surface preparation (more than SSPC-SP-3)	undercoating	topcoating dry
<b>EP1000</b>	Surface preparation (more than SSPC-SP-2)	EP1000	Dry (about 16h)

## Salt Spray Test Results

Product : A EP1000

B ordinary epoxy paint

Test method : JIS K5600-7.1

(35°C, spray 5% sodium chloride solution for 4000hours)



## Substrates

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

## Physical Properties

Item	Property
Appearance in Container	fluid
Standard application amount (g/㎡)	160g/㎡~320g/㎡
Pot life 20°C-50°C	3h~4h
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

## 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

## EP1000 Test Result

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)