

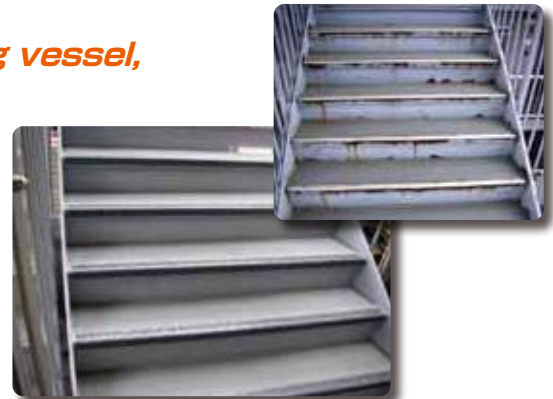
Perfectly compatible with EP039

**Excellent weatherproof and
Resistance to chemical and corrosion!!
Strong dry film prevents rust for a long time.**

Power preventive AP089 urethane is Acryl modified polyurethane topcoat which provides saving time, pollution reduction, finishing with just one coating. It can be sprayed on the rust surface with minimum sanding and provide excellent resistance to weathering, chemicals and corrosion.



- ◆ **Excellent resistance to chemical, friction and corrosion !!**
- ◆ **Offers rust preventive with strong and long-lasting dry film in harsh places including vessel, plant, harbor facilities and Steel Staircases**
- ◆ **Long-lasting gloss**
- ◆ **VOC compliant and low odor**
- ◆ **Thick film and cure in low temperature(5°C)**
- ◆ **Easy to apply**



Directions for use

1. Sand loose rust up to more SSPC-SP-2. Then, sand rusted surface with sandpaper.
2. Remove surface of all contaminants. Rinse thoroughly with fresh water. Allow to dry completely.
3. Mix the base component thoroughly.
4. Mix base component and activator at 5:1 ratio by volume for 3-5minutes.
5. Apply with airless spray, roller or brush.
6. After using, wash equipment and containers with reducer or urethane thinner.

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.

[Size] Base component/3.5kg, activator/0.7kg
[Standard application amount] 167-280g/㎡
[Dry time] 8hrs (depending on temperature and humidity.)

Formaldehyde Emission Standard Rating T18029
F☆☆☆☆(For interior)

Substrates

Rusted surface	○
Steel	○
Steel plate	○
Chemical conversion coating surface	○
Existing finish	○
※Galvanized steel (both cold and hot dipped)	○

[Tate] ※When applying on, please contact R&D



Physical Properties

Item	Property
Appearance in Container	fluid
Standard application amount (g/㎡)	167g/㎡ (75μ) ~ 280g/㎡
Pot life 20°C-50°C	3h ~ 5h
Dry to Touch	2h ~ 4h
Recoat time	8h ~ 72h
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)

AP089 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

AP089 Test Result (WHEN APPLY EPOXY UNDERCOATING)

Item	Property	Results
Adhesion	1mm×1mm	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)
Undercoat : Power rust preventive EP089
(2-component modified polyamide epoxy primer)

