



## **EPOCHEM 5002(epoxy based self-priming, coating)**

### **Product Description**

A two-pack modified amine cured solvent free epoxy based self-priming, coating with excellent resistance to seawater, crude oil, fuel oil and abrasion.

### **Recommended Use**

As an anti-corrosion coating for long-life protection of steel structures in severely corrosive environment. Applicable to steel structures for offshore projects, plants, bridges and others.

### **Physical Properties**

**Finish and Color** Matt, White, Gray and other colors based on order.

### **Drying Time**

Substrate Temperature	10 °C	25 °C	35 °C
Set to touch <sup>1</sup>	4 h	3 h	1/2 h
Dry through <sup>1</sup>	24 h	6 h	2.5 h

<sup>1</sup> Drying times are generally related to film thickness, air circulation, humidity, temperature, and number of coats, and will be affected correspondingly.

**Solids By Volume** 99.3±1 % (Determined by ISO 3233)

**Specific Gravity** 1.4±0.05 for mixture of Base and Curing agent.

**Flash Point** Base: 17°C (Closed Cup) , Curing agent: 25°C (Closed Cup)

### **Application Details**

#### **Surface Preparation**

Remove oil, grease, dirt and any other contaminants from the surface. The surface should be assessed and treated in accordance with ISO 8504.

\* Bare steel: Blast cleaning to Sa2.5 (ISO 8501-1:2007).

Roughness: using suitable abrasive to achieve 50 ~ 75 µm (ISO 8503-2).

#### **Application Conditions**

The Surface should be clean and dry completely; The surface temperature should be min. 10 °C and at least 3 °C above the dew point of the air. In the confined spaces, provide adequate ventilation during application and drying.

### **Mixing**

**Base (Part A) :epochem 5002- 100 gr**

**Curing Agent (Part B) :curing agent 500- 20 gr**

**100 : 20 (by weight)**



Mix thoroughly together prior to application in the properties with power agitator.

**Pot Life** 20 min at 25 °C

### Application Method

- Spray (Airless or Air), Roller or Brush application
- For airless spray application ;
- Nozzle orifice : 0.019 ~ 0.021”
- Output pressure : 1600 ~ 1800 psi
- Spray angle : 40 ~ 60°

### Typical Film Thickness

300 ~ 500 µm DFT May be specified in another film thickness than indicated depending on purpose and area of use.

### Recoating Interval

At 25 °C Minimum : 5 h Maximum : 1 d

The surface should be dry and free from any contamination prior to application of the subsequent coat.

**Shelf Life** 12 months in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed.

**Heat Resistance** Continuous : 150 °C (Non-immersion service)

Non-continuous : 180 °C (Non-immersion service)

### Chemical Resistance

	Acids	Alkalies	Solvents	Salts Water
<b>Splash &amp; Spillage</b>	<b>Excellent</b>	<b>Excellent</b>	<b>Excellent</b>	<b>Excellent</b>
<b>Fumes</b>	<b>Excellent</b>	<b>Excellent</b>	<b>Excellent</b>	<b>Excellent</b>
<b>Immersion</b>	<b>Excellent</b>	<b>Excellent</b>	<b>Excellent</b>	<b>Excellent</b>

### Health and safety

Do not store at temperature below 10 °C or above 30 °C.

Protect skin and eyes from direct contact with liquid paint, and avoid prolonged breathing of solvent vapors. Use with adequate ventilation. Respiratory protection is recommended when applying this product in confined spaces or stagnant air.