

## **EPO 100**

### **<Product Information>**

#### **Description:**

**EPO 100** is a high quality enamel that is intended to protect surfaces against water, gasoline and mineral oil, non-oxidizing acids and alkalis. **EPO100** has also been known to resist high mechanical stress. It is known of its high adhesion on substrate especially concrete, metal, wood, steel, and galvanized surfaces. Due to its resistance against salt water, **EPO 100** is used extensively on the exterior of underground oil gas pipelines , for water lines and potable water tanks.

#### **Advantages:**

- Excellent chemical resistance ( alkali, acids, ...)
- Suitable for multi-layer applications.
- High abrasion resistant
- Durable
- Can support temperature up to 95 C

#### **Physical constants:**

<b>Color:</b>	All RAL
<b>Density:</b>	1.27kg/l.
<b>Binder:</b>	Epoxy resin
<b>Hardner</b>	Plyamine
<b>Tensile Strength:</b>	9500-10000 PSI
<b>Dry film thickness:</b>	250-300 microns / layer
<b>Pigment:</b>	Titanium dioxide plus inert filler
<b>Solid contents:</b>	100%
<b>VOC:</b>	0 g/l
<b>Flash point:</b>	>100 C

**Abrasion resistance:** Very good- weardown of 70 mg according to taber abrasion (CS10/1000/100g)

**Tear Resistance:** 56kg/cm

**Weather resistance:** No chalking @ 2000 hrs

## **Chemical Resistance**

Sulphuric Acid	30%	Excellent
Sodium Hydroxide	25%	Excellent
Engine Oil		Excellent
Lactic Acid	25%	Good
Ammonia Solution	25%	Good
Citric Acid	25%	Excellent
Petrol		Excellent
Sugar Solution	40%	Excellent
Hydrochloric Acid	30%	Excellent

## **Application Standards:**

ASTM C 881/ C 881M

Abrasion resistance (system) ASTM C 501

## **Application:**

<b>Number of coats:</b>	One coat for normal use
<b>Mixing ratio:</b>	One gallon of hardener to four gallons of epoxy paint (wait 20 min after mixing)
<b>Application:</b>	Brush or airless gun
<b>Coverage:</b>	About 20-25 m <sup>2</sup> per gallon.
<b>Drying time:</b>	Half an hour touch dry.
<b>Re-coat interval:</b>	24 hours in general
<b>Pot life:</b>	8 hours after mixing
<b>Cleaning:</b>	With suitable thinner

## **Surface preparation:**

Area to be treated must be cleaned or washed with acid. It should be free from dirt, oil and grease.

It is highly recommended to prime these prepared surfaces with our epoxy primer.

When Epoxy coatings are applied on floors a three dimensional network is formed:

- Pushing upward: to give surface protection
- Towards the sides: to spread easily
- Downwards: To reinforce adhesion

**Precaution of safety:**

Labeling is required with accordance with the federal regulation of dangerous substance.

**R-phrases:**

20 Harmful by inhalation

36/37/38 Irritating to eyes and respiratory systems and skin.

**S-phrases:**

7/8 Keep container tightly closed and dry  
26 In case with contacts with eyes, rinse immediately with plenty of water.

38 In case of insufficient ventilation wear suitable respiratory equipment

.