

## POLYARMOR

Modified Epoxy Resin

### Description

POLYARMOR is a solvent-free modified epoxy resin. It has excellent adhesion, chemical resistance, wear resistance, etc. Due to its special properties, POLYARMOR is used as a corrosion protection method in many highly corrosive conditions.

In marine applications, there were serious concerns of Isocyanate components in Polyurethane Coatings as raised by IALA. Hence the development and application of Polyarmor Modified Epoxy Resin which is Isocyanate free.

### Uses

POLYARMOR is used as an anti-corrosion coating over surfaces, such as buoys, metal pipes, ship valves, metal tanks, concrete foundations, bridge pier, bolts, inside well structures, etc.

### Characteristics

POLYARMOR has superior anti-corrosion properties, it provides reliable protection for steel materials in ocean environment.

POLYARMOR has superior wear and impact resistance properties, it can withstand the impact of the ocean waves, and other highly corrosive environment.

POLYARMOR has versatility of application, It can be applied to virtually any surface, it can be applied as a priming agent, and as a final encasement layer.

POLYARMOR final encasement is provided with fluorescent colour.

### Application

Remove all loose surface rust, coatings and paints by hand or power tool cleaning or sand blasting to Sa2.5, Sa3, or GB/T 8923.

Mix the curing agent into the resin, stir thoroughly until the mixture is uniform in color.

Apply POLYARMOR using high pressure airless sprayer, scraper, or brush.

Avoid any mechanical or water contact during curing, a minimum of 6 hours after application.

Curing time will decrease at higher ambient temperatures, and increase at lower ones.

Particulars	Properties	Test Method
Surface Curing Time, hr (at 23 °C)	4	
Pot Life, hr (at 23 °C)	1	
Curing Time, hr (at 23 °C)	6	GB/T 1728
Density, g/cm <sup>3</sup>	1.49	GB/T 6750
Wear Resistance, mg (500 g, 1000 hrs)	< 20	GB/T 1768
Alkaline Resistance (10% NaOH, 7 days)	Pass	GB/T 9274
Salt Water Resistance (10% NaCl, 7 days)	Pass	GB/T 9274
UV Accelerated Aging (1000 hrs)	No Foaming, Chalking, Discoloration, Bubbling, Cracking, or Delamination	GB/T 1865
Salt Fog Resistance (1000 hrs)	No Bubbles, Blister, or Fragments on Coating	GB/T 1771
Hygienic Inspection	Pass	GB/T 17291
Color	Any	---

### Packaging

POLYARMOR Resin and Curing Agent Components ship in 25 kg Buckets  
 POLYARMOR Components mix with a Ratio of 100 units Resin to 20 units Curing Agent

*Note: Customized Flow Characteristics are available upon request, discuss with CP Design Engineers.*

*Note: HS Code Epoxy Resin: 32089090.90*

*Note: HS Code Curing Agent: 29213000.90*

*While all statements and data presented herein are believed to be accurate and reliable, they are given without expressed or implied warranty or guarantee unless otherwise stated.*

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