

## Anti-corrosion, Protective and Wear-Resistant Coating—Marine Equipment

### Description

YX-PGA101 is a protective coating system for structures exposed to marine environment. The product has strong anti-corrosion and anti-impact performance. It has good cathodic disbanding performance to well protect the structure.

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### Features:

- 1 Excellent anti-corrosion and anti-chemical mediator performance, such as acid, alkali, salt.
- 2 Excellent anti-impact and wear-resistance performance
- 3 Good shock-absorbing performance and anti-temperature change.
- 4 Excellent anti-salt mist, anti-sea erosion and anti-atmosphere aging performance.
- 5 Excellent physical performance, have good adhesive force to various substrates.
- 6 100% solid contents, good flexibility
- 7 Quick curing speed. It can spray up on any curved surface, vertical surface and angular surface.

### Applications:

- 1 Sea water desalination caisson
- 2 Ocean Dock
- 3 Marine concrete base
- 4 Bridge columns
- 5 Offshore platform
- 6 Inner wall, shell and deck of vessel



**Specifications:**

Item	A Component	B Component
Appearance	Yellow liquid	Customized color
Density (g/cm <sup>3</sup> )	1.08	1.02
Viscosity (cps)	820	670
Solid Contents (%)	100	100
Mix Ratio (volumn ratio)	1	1
Gelation Time (sec)	7-9	
Surface drying time (sec)	10-15	
Theoretical Coverage	1.05kg/m <sup>3</sup> Film thickness: 1MM	
All the above index are based on 25°C		

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**Physical Performance:**

Item	Test Standard	Result
Hardness( Shore A)	ASTM D 2240	90±3
Break Elongation (%)	ASTM D-412	460
Tensile Strength (Mpa)	ASTM D-412	18
Tear Strength (KN/m)	ASTM D-624	65
Watertightness (0.3Mpa/30min)	HG/T 3831-2006	Impermeable
Wear Resistance(750g/500r)/mg	HG/T 3831-2006	4.4
Adhesion (Mpa) Concrete	HG/T 3831-2006	3.0
Adhesion (Mpa) Steel	HG/T 3831-2006	10.0
Density (g/cm <sup>3</sup> )	HG/T 6750-2007	1.02
Anti-cathodic disbanding(1.5V, (65±5)°C, 48h)	HG/T 3831-2006	≤15mm

**Chemical Performance:**

Item	Result
10%H <sub>2</sub> SO <sub>4</sub> or 10% HCL, 30d	No corrosion, bubble or peel
10%NaOH, 30d	No corrosion, bubble or peel
30g/L, 30d	No corrosion, bubble or peel
Anti salt mist, 2000h	No corrosion, bubble or peel
Anti oily diesel, raw oil 30d	No corrosion, bubble or peel

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### Expiration Date and Storage:

- 1 10 months (before open package);
- 2 Storage Temperature: 5~35°C;
- 3 Package: A Component: 220 kgs/bucket B Component: 200kgs/bucket;
- 4 Stored in a cool, ventilated environment and avoid direct sunlight.

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### Notes:

- 1 The temperature of substrate must be 3 °C higher than that of dew point temperature.
- 2 Fully mix B component before use.
- 3 It is prohibited to add any diluents in the product.
- 4 Good ventilation must be kept under confined space.
- 5 When using this product, people must wear work clothes, wear goggles, the respirator, gloves and other protective equipment.