



# RAINBOW

## RAINBOPRIME 810 General Purpose Epoxy Primer

### Specification Data

<b>Product Number</b>	RAINBOPRIME 810
<b>Type</b>	Two-pack, general purpose anticorrosive paint based on high solids epoxy resin.
<b>Uses</b>	Used for the cement substrate, steel structures of ship, bridge, steel frame, tank, factory equipment etc.
<b>Characteristics</b>	<ol style="list-style-type: none"><li>1. General purpose anticorrosive primer for marine hulls, topsides, boottops and bottoms.</li><li>2. Can coat or be coated with various types of coating and is the best maintenance and green paint.</li><li>3. Tough and flexible film with excellent abrasion resistance.</li><li>4. Excellent resistance to sea water and most chemicals.</li><li>5. Excellent corrosion resistance and very good adhesion.</li></ol>
<b>Color</b>	Brown · Gray · Green and Blue
<b>Finish</b>	Semi-Gloss
<b>Density</b>	Above 1.25 Kg/L (mixture)
<b>Overcoating Intervals</b>	Min. 8 hrs Max. 14 days
<b>VOC Values</b>	130 g/L
<b>Volume Solids</b>	88 ± 3 %
<b>Theoretical Coverage</b>	33.2 m <sup>2</sup> /Gal (DFT=100um)
<b>Dry Film Thickness</b>	Wet film :114 μm ~170μm Dry film :100 μm ~150μm
<b>Repair</b>	Self Repairing
<b>Heat Resistance</b>	93°C (dry environment)

### Application Instruction

- Surface preparation

<b>General</b>	Remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating. Surfaces must be clean and dry. Moisture, grease, sludge, dust, corrosive salt must be thoroughly cleaned from substrate.
<b>Steel</b>	Surface preparation standards can use SSPC-SP10 or Sa2 1/2 (ISO 8501-1:2007).
<b>Primed Surfaces</b>	RAINBOPRIME 810 should always be applied over a recommended anti-corrosive coating system. The primer surface should be dry and free from all contamination and rainboprime 810 must be applied within the overcoating intervals specified (consult the relevant product data sheet).
<b>Areas of Breakdown and Damage</b>	It should be prepared to the specified standard (Sa2 1/2 (ISO 8501-1:2007) or SSPC-SP6, Abrasive Blasting or SSPC-SP11, Power Tool Cleaning) and patch primed prior to the application of Rainboprime 810.

EPDM3030810X V1.1

# YUNG CHI PAINT & VARNISH MFG. CO., LTD.

No.26, Yen Hai 3rd Road, Kaohsiung, Taiwan.  
<http://www.rainbowpaint.com.tw>

TEL:886-7-8713181  
FAX:886-7-8715443



# RAINBOW

- **Mixing & Thinning**

**Mixing**  
**Thinning**  
**Mixing Ratio**  
**Pot life**

Mix base and hardener according to the mixing ratio and stir thoroughly.  
 Use Epoxy Thinner (SP-12) to thin up 5-10%.  
 Base : Hardener = 4 : 1 ( by volume )  
 2 hours at 25°C ( mixture, 77°F)

- **Equipment**

**Spray**  
**Application**

Avoid applying the paint in rainy weather or the relative humidity exceed 85%, particularly, a wet surface must be thoroughly dried. All equipment must be cleaned immediately after use. To increase or decrease the usage of thinner depending on the temperature of the coated surface, the temperature decreased may have to add more amount of thinner

**Airless**  
**Spray**

Pump ratio : 45 : 1 or greater  
 Tip size : 0.021"~ 0.029"  
 Input PSI: 85 Output PSI : 2800~4000.

**Brush**

Application by brush is applicable. For special condition please consult with product manufacturer.

**Roller**

Application by roller is applicable. For special condition please consult with product manufacturer.

- **Environment conditions**

Condition	Coating	Surface	Environment	Humidity
Minimum	10°C (50°F)	10°C (50°F)	10°C (50°F)	30%
Maximum	35°C (95°F)	55°C (131°F)	45°C (113°F)	85%

Industry standards are for substrate temperatures to be 3°C (5°F) above the dew point . the product simply requires the substrate temperature to be above the dew point.

- **Curing Schedule**

Surface Temp. & 50% Relative Humidity	Dry to Handle	Dry to Recoat & Topcoat
10°C (50°F)	12 hours	24 hours
15°C (59°F)	8 hours	16 hours
25°C (77°F)	6 hours	12 hours
35°C (95°F)	4 hours	8 hours

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- Cleanup & Safety

**Cleanup**

Use Epoxy Thinner (SP-12) to clean. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

**Safety**

Please read and follow all caution statements on this product data sheet and SDS for this product.

**Ventilation**

Proper ventilation and protective measures must be provided during application and drying to keep solvent vapor concentrations within safe limits and to protect against toxic or oxygen deficient hazards.

- Package, Handling & Storage

**Shelf Life**

Part A :Minimum 2 years under normal storage conditions  
Part B :Minimum 1 years under normal storage conditions

**Shipping  
Weight**

Part A : 22kg  
Part B : 4kg

**Storage  
Temperature &  
Humidity**

5-35°C (41-95°F)  
0-90% Relative Humidity

**Flash Point  
Storage**

Above 100°C (mixture)  
Store in cool ventilated place, do not exposed to the sun in outdoor to avoid affecting the quality.

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