



RAINBOW

EP-4556F(MIL) AMINE-CURED EPOXY TANK LINING

Specification Data

Product Number	EP-4556F(MIL.)
Type	The two-pack, high build water tank coating based on Bisphenol A epoxy resin and polyamine resin with anticorrosive pigment.
Uses	<ol style="list-style-type: none">1. Used for the cement substrate, the steel structures of ship, bridge, steel frame, tank, factory equipment etc.2. Especially suitable for fuel tanks, seawater ballasted fuel tanks, seawater tanks, bilges, and other ship structures, interior and exterior .
Characteristics	<ol style="list-style-type: none">1. Tough and hard film, rich flexible and adhesion.2. Excellent chemicals resistance, especially in water, alkali liquid, petroleum and organic solvents.3. Excellent resistance to abrasion, impact and electrical insulation.4. Excellent resistance to the penetration of moisture and corrosive gases.5. Excellent resistance to gasoline, diesel, JP-4, JP-8, naphtha, crude oil, kerosene, reforming oil, light-waste oil, residual oil, fuel oil and airplane jet fuel.6. No VOC emissions in the coating.
Color	White 、 Gray
Finish	Gloss
Density	Above 1.3Kg/L (mixture)
Preceding Coats	Rainboprime 810
Overcoating Intervals	Min. 12hrs Max. 10days (25°C)
VOC Values	Under 10 g/L
Volume Solids	98±2%(mixture)
Theoretical Coverage	37.9 m ² /Gal~25.2 m ² /Gal 10.0 m ² /L~6.7 m ² /L (DFT=100um~150 um)
Dry Film Thickness	4~6 mils (single coating)
Repair	Self Repairing
Heat Resistance	93°C (dry environment)

Application Instruction

• Surface preparation

General	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.
Steel	Surface preparation standards can use SSPC-SP10 or Sa2 1/2 (ISO 8501-1:2007).
Primed Surfaces	EP-4556F(MIL) should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and it must be applied within the overcoating intervals specified (consult the relevant product data sheet).
Areas of Breakdown and Damage	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 EP-4556F(MIL).

EPDM104556MX V1.3

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 = 3 : 1 (by weight)

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"~ 0.035"

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)	24 hours	36 hours
15°C (59°F)	16 hours	24 hours
25°C (77°F)	7 hours	12 hours
35°C (95°F)	4 hours	8 hours
50°C (122°F)	2 hours	4 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 : 1 Gallon – 3.85 kg 5 Gallon – 19.25 kg
Part B : 1 Gallon – 0.95 kg 5 Gallon – 4.85 kg

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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