



# RAINBOW

## HIGH BUILD NOVOLAC EPOXY COATING

### Specification Data

<b>Product No.</b>	No.1572
<b>Type</b>	2 pack , highly cross-linked amine-cured novolac epoxy. It provides the excellent resistance to corrosion,abrasion,permeation,thermal shock and severe chemical attack for external steel surfaces of carbon(corrosive alloy steel) and austenitic(duplex) stainless steel under insulation operating at either steadily or cyclically between -45°C (-50°F) and 205°C (400°F). It must be finished by topcoat when used for outdoor condition.
<b>Uses</b>	Used for carbon steel 、 stainless steel and galvanized steel to corrosion prevention under 205°C (400°F) and excellent resistance to chemicals.
<b>Characteristics</b>	<ul style="list-style-type: none"><li>• Excellent heat resistance, can withstand heat to 205°C (400°F).</li><li>• Excellent anti-corrosion for thermal shocking structures.</li><li>• Excellent resistance to chemicals.( Complies with ASTM C267 )</li><li>• It can be sprayed to the carbon steel, galvanized steel and stainless after its surface has been treated.</li></ul>
<b>Color</b>	Gray 、 Red Brown
<b>Finish</b>	Flat
<b>Primer</b>	Self Priming
<b>Subsequent Coats</b>	No.1569 for high temp conditions and PU series for ambient temperature conditions
<b>Dry Temperature Resistance</b>	Continuous : 205°C (400°F)
<b>VOC values</b>	210 g/L
<b>Volume Solids</b>	70 ± 3 %
<b>Typical Thickness</b>	150 microns(6 mils) (DFT) per coat ( 2 coats recommended ).
<b>Theoretical Coverage</b>	18.2 m <sup>2</sup> /Gal 4.8 m <sup>2</sup> /L 3.2 m <sup>2</sup> /Kg (DFT :150 microns)

### Performance Data

Test Method	System	Results
CNS 2949 K2050 Heat-Resistance	2 ct. 1572	Impact resistance test : φ12.5mmx300gx500mm OK Heat Resistance : <b>200°C (398°F)</b>
ASTM B 117-16 Salt Spray	2 ct. 1572	2000 hrs OK
ASTM C 267-01(2012) Chemical Attack	2 ct. 1572	Sulfuric acid (30%) : 30 days Hydrochloric acid(30%) : 30 days Sodium hydroxide(30%) : 30 days Diesel : 30 days 95 unleaded petrol : 30 days

EPDM151572XX V1.2

## 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



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## 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 be used SSPC-SP10 、Sa2 1/2 (ISO 8501-1:2007) or hand rusting to SIS St3. The galvanized or stainless steel must be sand blasted to SIS Sa1 before application. Roughness for structure of carbon steel requires for 45~60 microns, for stainless and galvanized steel surface is above 25 microns.

### • Mixing & Thinning

- Mixing** Mix base and hardener according to the mixing ratio and stir thoroughly.
- Thinning** Use Epoxy Thinner (SP-12) to thin up 5-10%
- Mixing Ratio** Base : Hardener = 84 : 16 ( by weight )
- Pot life** 4 hours at 77 °F (mixture, 25°C)

### • Equipment

- Spray Application** Add thinner to base and stir thoroughly, then add hardener. Wet film should be below 300 microns for one coat spray to avoid sagging. Viscosity may lower while add hardener, please keep stirring for few minutes. The paint film must be cured for 7 days in room temperature before service, The coating film would be no cracking when be heated up to 220°C from room temperature directly.
- Airless Spray** Pump ratio : 45:1 or greater  
Tip size : 0.021"~0.025"  
Output PSI : 2500~4000 PSI
- Brush** Application by brush is recommended for small areas only. Multiple coats may be required to achieve specified film thickness.
- Roller** Application by roller is recommended for small areas only. Multiple coats may be required to achieve specified film thickness.

### • Environment conditions

Condition	Coating	Surface	Environment	Humidity
Minimum	10°C (50°F)	10°C (50°F)	10°C (50°F)	30%
Maximum	45°C (113°F)	50°C (122°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 3°C (5°F) above the dew point.

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- Coating interval

Surface Temp. & 50% Relative Humidity	Minimal	Maximum
10°C (50°F)	2 days	14 days
15°C (59°F)	14 hours	14 days
25°C (77°F)	8 hours	7 days
50°C (122°F)	2 hours	3 days

The surface must be abrasive before painting if exceed the maximum coating interval.

- Cleanup & Safety

<b>Cleanup</b>	Use Epoxy Thinner (SP-12) to clean. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
<b>Safety Ventilation</b>	Please read and follow all caution statements on this product data sheet and MSDS for this product. 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

<b>Shelf Life</b>	Minimum 18 months under normal conditions.	
<b>Shipping Weight</b>	1 Gallon Kit – Part A : 4.2 kg      Part B : 0.8 kg	
	5 Gallon Kit – Part A : 21.0 kg      Part B : 4.0 kg	
<b>Storage Temperature &amp; Humidity</b>	5-35°C (41-95°F) 0-90% Relative Humidity	
<b>Flash Point</b>	Part A : 25°C (77°F)      Part B : 25°C (77°F)	
<b>Storage</b>	Store in dry, shaded conditions away from sources of heat and ignition.	

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