



RAINBOW

POLYURETHANE COATING – Rainbowcar 727

Specification Data

Type	A two-pack, colored coating based on acrylic polyol resin with non-yellowing polyisocyanate hardener.
Uses	Used for wooden, metal, FRP products and steel structures such as ships, vehicles, bridges, oil refineries, power stations, pulp factories, chemical plants etc.
Characteristics	<ul style="list-style-type: none">• High gloss and excellent appearance.• Excellent weather resistance with gloss and color retention.• Excellent resistance to chemicals.• Excellent adhesion, hardness, flexibility and abrasion resistance.
Color	A broad range of colors is upon customer request.
Finish	Gloss
VOC values	400 g/L , use Rainbowcar 736 thinner to thin up 5% (428g/L) or 15% (478 g/L).
Volume Solids	Above 57%
Theoretical Coverage	72 m ² /Gal(774.7 ft ² /Gal) 19 m ² /L(204.4 ft ² /L) 18 m ² /Kg(193.7 ft ² /Kg) (DFT :1.2 mils)
Dry Film Thickness	1.2~2.0 mils per coat. Dry film thickness in excess of 2.4 mils (60 microns) per coat is not recommended
Service Temperature	Continuous : 200°F Non-Continuous :250°F
Preceding Coats	Rainbowcar 770 or others we suggested.

Certification

- **BS 6853: 1999 Table 5 (exterior vertical surfaces) (Rainbowcar 1021 + Rainbowcar 1601 + Rainbowcar770 + Rainbowcar 727) :**
Exova Waringtonfire Document Reference :393306, 393308 & 393309 Date 6th February 2018

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.
Primed Surfaces	Rainbowcar 727 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and Rainbowcar 727 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 Rainbowcar 727.

EPDM7107279X V1.0

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<http://www.rainbowpaint.com.tw>

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RAINBOW

• Mixing & Thinning

- Mixing** Mix base and hardener according to the mixing ratio and stir thoroughly.
Thinning Use PU Thinner (Rainbowcar736) to thin up 5~15%.
Mixing Ratio Base : Hardener = 86 : 14 (by weight) Some individual colors may be different.
Pot life 4 hours at 25°C (mixture, 77°F)

• Equipment

- Spray Application** Avoid applying the paint in rainy or humid weather (the moisture above 85% RH), otherwise the adhesion will be affected by moisture of substrate and the paint film will be loss its gloss. All equipment must be cleaned immediately after use. When overcoating interval is exceeded, paint surface must be roughened to insure adhesion. Hardener cover must be tightly closed to avoid reaction with moisture in air to form bubbles and gelation.
- Airless Spray** Pump ratio 30:1 or greater
Tip size : 0.015"~ 0.019"
Output PSI : 2100~2500
- Brush** Application by brush is applicable. For special condition please consult with product manufacturer.

• Environment conditions

Condition	Coating	Surface	Environment	Humidity
Normal	20~30°C(68°F~86°F)	20~30°C(68°F~86°F)	20~30°C(68°F~86°F)	30~55%
Minimum	5°C(41°F)	5°C(41°F)	5°C(41°F)	0%
Maximum	35°C(95°F)	42°C(108°F)	42°C(108°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.

Caution : This Product is moisture sensitive in the liquid stage and until cured. Protect from high humidity ,dew and direct moisture contact until cures. Application and/or curing in humidities above maximum, or exposure to moisture from rain or dew may result in a loss of gloss and/or microbubbling of the product.

• Curing Schedule

Surface Temp. & 50% Relative Humidity	Dry to Handle	Dry to Recoat & Topcoat
5°C (41°F)	20 hours	20 hours
15°C (59°F)	12 hours	12 hours
25°C (77°F)	3 hours	3 hours
35°C (95°F)	1.5 hours	1.5 hours

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- Cleanup & Safety

- Cleanup** Use PU Thinner (Rainbowcar 736) 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 MSDS 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 – 3.0kg 5 Gallon – 15 kg
Part B : 1 Gallon – 0.5kg 5 Gallon – 2.5 kg
Some individual colors may be different.
- Storage Temperature & Humidity** 5-35°C (41-95°F)
0-90% Relative Humidity
- Flash Point** Part A: 25°C (77°F)
Part B: 47°C (116°F)
- Storage** Store in dry, shaded conditions away from sources of heat and ignition.

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