



## NEW GENERATION PAINT Co., Ltd

Add: 818/50 Xo Viet Nghe Tinh Street, Ward 25, Binh Thanh District, HCM City.

Tel: 028.38991678

Fax: 028.38991688

Tax code: 0304925039

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### TECHNICAL DATA SHEET

#### 2 IN 1 EPOXY ON ZINC AND INOX

#### CODE EC – STANDARD COLOURS

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#### PRODUCT INFORMATION

2 in 1 epoxy on zinc is a two component paint that combines rust and coating in the same paint, produced on the basis of Epoxy resin, polyamide curing agent, anti-corrosion active ingredient, pigment, solvent and additives. Used as a protective coating on zinc and stainless steel surfaces.

#### USES

Specially designed as a specialized paint for galvanized and stainless steel structures, constructions, civil, etc. Good adhesion, water and chemical resistance. Resistance to temperatures up to 120°C.

#### MAIN SPECIFICATION

Abrasion resistance is very good.

Withstand harsh environments.

Very good adhesion.

Fast drying time, hard.

Water resistant, solvents, very good chemical.

Small burn marks when cutting and welding wind stone.

Ability to combine very well with most types of binder.

It is possible to apply the paint right at the manufacturing plant and the installation site.

Little impact on the environment.

#### THICKNESS & NORMS

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	Min	Max	Standard
Thickness, dry (µm)	50	100	60
Thickness, wet (µm)	94	188	113
Theoretical norms (m <sup>2</sup> /l)	10,6	5,3	8,8
Actual norms (m <sup>2</sup> /l)	7,4	3,7	6,1

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#### TECHNICAL SPECIFICATIONS

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Color:	Standard colours
Glossiness (60o):	60 GU (ASTM D523)
Density:	1,20 – 1,40 g/ml (ISO 2811-1:2011)
Solids by volume:	53 ± 2% (ISO 2811-1:2011)
Product mixing:	Two component

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Flash point:	38°C (ISO 3679 Method 1)		
Dynamic viscosity (KU):	70 ± 2 (ASTM D562)		
Drying time:	Drying time of the paint film dependent and related to factors such as the flow of air, temperature, film thickness and number of coats,... The figures given below are based on the following conditions: Good ventilation, standard film thickness, one coat.		
Surface temperature	15°C	25°C	35°C
Surface dry	1h	50min	40min
Completely dry	8h	7h	6h
Paint the next layer	6h	5h	4h
Chemical resistance:	Very good		
	NaOH 5% after 168h No blistering ( JIS K5551:1991)		
	H <sub>2</sub> SO <sub>4</sub> 5% after 24h No blistering ( JIS K5400:1990)		
Impact resistance:	≥ 50 kgf.cm (TCVN 2100-1:2013)		
Adhesion:	1 point (TCVN 2097:1993)		
UV resistance:	Limited		
VOC:	420 g/l (TCVN 10370-1:2014)		
Storage time:	24 months		

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### SURFACE PREPARATION

Do not paint when the surface water, moisture, grease, rust stains and other stains.

The surface should be dry, clean and free of dirt and grease in accordance with ISO 8504-2:2000.

Surface of new untreated steel: Sand or ballast cleanliness meets Sa2.0 standard (ISO 8501-1:2007). Surface roughness using suitable blowing agent to achieve Medium Grade (50-85µm, Ry5) (ISO 8503-2). Acceptable mechanical cleaning to the minimum standard of St2 (ISO 8501-1:2007).

The steel surface must be cleaned, the faulty locations must be treated prior to application, it is best to coat the refractory before coating.

### CONSTRUCTION

Only be painted when it is sunny, no rain (if outdoor), temperature

*Topcoat EC 2in1*

*Release date: 01/10/2017*



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### CONDITIONS

> 10°C, air humidity < 85%, temperature and humidity measured in the area around the surface. The substrate temperature should be at least 3°C above the dew point temperature. Application in enclosed areas should be well ventilated to ensure the drying process.

### APPLICATION METHODS

#### **Spray gun:**

This is a fast, effective, time-saving method. Hard to paint in places where space is small, ventilation is not good. The painter requires skilled work. The rate of paint loss is greater than other methods.

#### **Use roller:**

Can be used for small areas but should not be used to coat the first anti-rust paint.

#### **Use brush (paint brush):**

Only use the brush to paint the small positions that these methods can not use. Note when painting to achieve specified thickness.

### DATA EXECUTION

#### **Mixing ratio (volume): 4/1**

4 Part A (paint) mixed with 1 part B (hardener). Mix for 5 minutes before application

**Shelf Life:** 6 hours (20°C) decreases with higher temperatures

**Thinning diluents:** ET01

**Rate added:** 0 – 10%

*Data for high pressure spray guns (airless spray guns)*

Pressure at the tip of the spray gun: 12-15MPa (120-150 bar, 1700-2130 psi).

Nozzles: Graco code size 315 – 317

Spray angle: 45 – 90°

The distance from the tip to the area to be sprayed: 0,4 - 0,6m

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### TYPICAL PAINT

**Topcoat EC 2in1**                      **1x60 µm (dry thickness)**

**Or:**

**Topcoat EC 2in1**                      **2x60 µm (dry thickness)**

### STORAGE

Preserved in accordance with national safety regulations. It is best to store the product in a dry, cool place, avoid rain, leak, avoid direct sunlight and should be well ventilated. Keep away from heat

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and ignition sources. Containers should always be kept tightly closed.

### TRANSPORT

Carefully transport, avoid strong shocks.

### PACKAGE

#### Two component paint

1 liter set. Part A (base) 0.8 liter and Part B (hardener) 0.2 liter.

5 liter set. Part A (base) 4 liter and Part B (hardener) 1 liter.

20 liter set. Part A (base) 16 liter and Part B (hardener) 4 liter.

### SAFETY INFORMATION

Paint is very flammable products. All sources of heat are prohibited when in production as well as use, in contact with paint. Good ventilation. Wear fully equipped labor protection. Avoid inhaling vapors and spray. Avoid to affect the skin. If the paint on the skin must use soap, or appropriate detergent to wash immediately. Immediately flush eyes with plenty of water and seek medical advice. Please see the instructions carefully and note the safety warnings when used printed on the package.

For more information on the health and safety effects and safety recommendations for using this product, see the Product Safety Data Sheet for more details.

### NOTE:

*The specifications in this table are based on laboratory tests that we believe to be accurate and only used as a guide. All recommendations or suggestions related to the use of products manufactured by New Model Coatings or listed in the technical documentation. However, in practice the product is often used outside the control of the manufacturer, so we can only guarantee the inherent quality of the product. The manufacturer reserves the right to change these parameters without prior notice.*

*This technical release was issued on October 1, 2017 and replaced the previously issued version.*