

2K Acrylic urethane paint for metal

Eco Metald

(EC-GM62-, EC-GM62-M series)

Introduction

1K acrylic melamine paint for metals, “Rylcon B/B20-Series”, 2K acrylic urethane paint “Haiurex M / M79-series” have been our customer’s favorite, but the aesthetics and film performance requirement changes in the market in daily pace. To catch up with these needs, our Metald series were released out in the market in the year 2016.

However, ecological movements have been actively made in recent years, therefore we have developed our conventional Metald series by remaining its features yet ecological.

“Eco Metald EC-GM62-(M)series” is 2K acrylic urethane paint which able to bake both in low and high temperature which excellent in adhesion against substrates, water resistance, flexibility etc with a wide range of aesthetic ability which can perform high brightness and high chroma.

Features

1. Ecological paint which free from toluene, xylene, ethyl benzene and BPA (Bisphenol A)
2. For both low and high bake
3. Good aesthetic, bending resistance and water resistance

Product code

EC-GM62-(M) Eco Metald Various colors

Recommendable thinner and hardener

[Thinner]

Z-EC-K053 Thinner(fast drying)
 Z-EC-K055 Thinner(moderate)
 Z-EC-K057 Thinner(slow drying)

[Hardener]

Z-EC-H-800

Applicable substrate

SPCC-SB Polished steel plate,
 SPCC-SB Zinc phosphate coated steel plate,
 Aluminum (A1050P), Aluminum alloy (A5052P),
 Stainless (SUS-304, SUS-316),
 Zinc coated steel plate, Brass,
 ABS, PC, PC/ABS *Only for low temp drying

Usage precautions

1. Please clean the substrate thoroughly before spraying to avoid any contaminant which could cause poor adhesion or cissing.
2. Please use the selected thinner as it may cause property deterioration depending on the type of solvent.
3. There are several grades of substrates in the market, therefore please check before usage as some may result differently from its actual property.
4. Please stir evenly before usage. When spraying, please stir and pour the mixed paint into the stirring tank and stir while spraying.
5. Avoid direct sunlight and store it in a cool and dark place (-20°C to 40°C)
6. Please make the amount as per necessary as it is 2K paint. Pot life time is 4hours at 20°C. Please do not exceed the pot life time instructed as it may not able to perform as expected. Please refer to the SDS etc for other precautions.

Please contact below for any enquiry upon this paint

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Standard Spraying Spec			
Content		Spec	
Paint		EC-GM62-	EC-GM62-M
Mix ratio Paint:Hardener:thinner(by weight)		4:1:3±1	10:1:9±1
Spray viscosity(Iwata viscometer NK-2, 20°C)		10±2sec	9±1sec
Spraying Method	Orifice diameter	1.3±0.3mm φ	1.3±0.3mm φ
	Pressure	0.3±0.1MPa	0.3±0.1MPa
Spray distance		25±5cm	25±5cm
Drying condition	Flash off: temp x time	25°Cx5min	25°Cx5min
	Drying temp x time	80°Cx30min or 160°Cx20min	80°Cx30min or 160°Cx20min
DFT		20±5 μm	12±2 μm

Film performance

Tests	Test condition	Result
Adhesion	1mm Cross Hatch Adhesion Tester (10x10)	100/100
Pencil hardness	Mitsubishi pencil UNI 1kg of load, scratching method	2H
Eraser abrasion test	Sony eraser testing equipment, 1.64kgf, 300rounds, no exposure	Pass
Alcohol resistance	99.5% Ethanol rubbing, 500g/cm ² , 100times, no substrate exposure	Pass
Acid resistance	5%HCl, Room temp x 24hr, no substrate exposure	Pass
Alkali resistance	5%NaOH, Room temp x 24hr, no substrate exposure	Pass
Thermal resistance	Adhesion test after 85°Cx leave for 96hr	100/100
Humidity resistance	Adhesion test after 50°Cx 98% RH x leave for 120hr	100/100
Boiling water resistance	Adhesion test after immerse in boiling water(98°C) for 1hr	100/100
Heat cycle	-30°Cx1hr ⇄ Adhesion test after 60°Cx1hr for 10 cycles	100/100
Weatherability	Sunshine weather meter, 150hr, ΔE= within 1.0	Pass
Testing conditions for samples	Substrate SUS304 Paint EC-GM62- Eco Metald Black Paint:Hardener(Z-EC-H-800):thinner(Z-EC-K055)=4:1:3(by weight) Flash off 25°Cx5min Drying 160°Cx20min(start testing after 1day in room temperature) Film thickness 20±1 μm	

*The listed property value is an example of our test results and does not indicate standard value. Please consider thoroughly before purchasing.

*Please be informed that for product improvement purposes, information may change without prior notices.

Jul 2018 JRD-GM62-(M)V.E1.0