

1K Acrylic urethane paint for metal

Eco Metald

(EC-GB31-line)

Introduction

“Rylcon B/B20-line” have been our customer’s favorite 1K acrylic melamine paint for metals, 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-GB31-line” is 1K acrylic urethane paint which excellent in adhesion against substrates, water resistance, flexibility etc. with a wide range of aesthetic ability that enables to perform for high chromatics.

Features

1. Ecological paint which free from toluene, xylene, ethyl benzine and BPA (Bisphenol A)
2. Good workability
3. Good aesthetic, bending resistance and water resistance

Product Code

EC-GB31- Metald Various colors

Recommendable thinner

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

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

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 refer to SDS etc. for further precautions.

Please contact below for any enquiry upon this paint

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Standard Spraying Spec		
Content		Spec
Mix ratio Paint:thinner (by weight)		100:70±10
Spray viscosity(Iwata viscometer NK-2, 20°C)		10±2sec
Spraying Method	Orifice diameter	1.3±0.3mm φ
	Spray gun pressure	0.3±0.1MPa
Spray distance		25±5cm
Drying condition	Flash off: temp x time	25°C x 5min
	Drying: temp x time	160°C x 20min
Standard Film Thickness		20±5 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 substrate exposure	Pass
Alcohol resistance	99.5% Ethanol rubbing, 500g/cm ² , 100times, no substrate exposure	Pass
Acid resistance	5%HCl, Room temp x 24hrs, no substrate exposure	Pass
Alkali resistance	5%NaOH, Room temp x 24hrs, no substrate exposure	Pass
Heat resistance	Adhesion test after exposing in 85°Cx 96hr	100/100
Humidity resistance	Adhesion test after exposing in 50°Cx 98% RH x120hr	100/100
Boiling water resistance	Adhesion test after immersion in boiling water(98°C) for 1hr	100/100
Thermal cycle	Adhesion test after 10 cycles of -30°Cx1hr ⇔ 60°Cx1hr	100/100
Weatherability	Sunshine weather meter, 150hr, within ΔE= 1.0	Pass
Testing conditions for samples	Substrate SUS304 Paint EC-GB31- Eco Metald Black Paint: Thinner(Z-EC-K055)=100: 70 (by weight) Flash off 25°Cx 5min Drying 160°C x 20min(start testing after exposing for 1 day) DFT 20±1 μ m	
*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.		

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