

UV Paint

ECO ULTRA VIN

(EC-UV90-Series)

Introduction

UV Clear is used as a protective coat which high in abrasion resistance and hardness to perform high aesthetics on colored UV layer for mobile products such as cell phones and automotive interiors.

Simultaneously, environmental issues must be concerned along diversification of film performance. By optimizing the pigment, initiator and resin for UV curable paint with good workability, we have successfully enabled to keep hardness, good abrasion resistance and colorable UV clear paint. Eco Ultra Vin, EC-UV90- will meet your expectation to concern for the environment as well by decreasing the process to 1 coating on plastic substrate.

Features

1. Excellence in scratch and chemical resistance and has good levelling
 2. High in transparency and glossiness
 3. 1 Coating
 4. Free from toluene, xylene, and ethyl benzene and it is Ecological.
- *Series of products available to do buffing, and 2K paint sprayable

Product Code

EC-UV90- Eco Ultra Vin
 EC-UV90-RP Eco Ultra Vin

Recommended Thinner

Z-EC-P513 Eco Ultra Vin Thinner(fast)
 Z-EC-P515 Eco Ultra Vin Thinner(moderate)
 Z-EC-P517 Eco Ultra Vin Thinner(slow)

Applicable Substrate

ABS, PC/ABS, PC

Notice

1. Cleanse the substrate before spraying to remove any extra substance such as release agent to prevent adhesion failure and cissing.
2. Use the recommended thinner to prevent possible changes in feature of the paint depending on solvent.
3. There are various kind of grades of the substrate which could have different kind of actual feature, so do check before usage.
4. Please stir evenly before usage. When spraying, stir while pouring mixed paint in the mixing type of tank then spray.
5. Paint must avoid direct sunlight, and must be stored in a cool and dark place(0-40°C)
6. Please be aware that this paint could not be used for re-coating on the film which completely cured.
7. This paint contains low molecular monomer which could cause skin irritation depending on one's body condition. Please wear a mask and protection gloves when using. In case of direct skin contact or on your clothes, please Wash it thoroughly with water. Please do not use solvent to cleanse as it could enhance the absorption to the skin.
8. This paint could cause discoloration due to its coloring spec depending on the film thickness. It will also cause curing failure if film thickness is excessively thick, so please measure the thickness appropriately.
9. Please refer to SDS etc for other notices.

Please contact below for any inquiry upon this product.

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Standard Spraying Specification		
Contents		Spec
Mixing ratio Paint:thinner(by weight)		100:100±10
Spraying viscosity(Iwata Viscometer NK-2 at 20°C)		8.0±0.5sec
Spraying Method	Orifice diameter	1.3±0.3mm ϕ
	Spraying pressure	0.3±0.1MPa
Spraying distance		25±5cm
Drying Condition	Pre-drying Temperature × Time	60°C × 5min
	Lamp Type	High pressure mercury lamp
	Total irradiance	800±100mj/cm ²
	Peak irradiance *1	100±20mW/cm ²
	Lamp output	100±20W/cm
Standard Film Thickness		17±3 μ m
*Measure with 1 EYE UV METER UVPF-A1(PD-365 by EYE GRAPHICS Pte Ltd)		

■ Film Performance

Testing Contents		Testing Conditions	Results
Adhesion		1mm cross cut test (10 × 10)	100/100
Pencil Hardness		Pencil Scratch test, Mitsubishi UNI, load 1kg, Scratch method	F-H
Abrasion Resistance	Eraser	SONY eraser abrasion tester, load 1.64kgf, 300times, no exposure of substrate	Pass
	Jeans	Rubbing test, weight 500g/cm ² , 2000 strokes, no exposure of substrate	Pass
Alcohol Resistance		99.5%Ethanol rubbing,500g/cm ² load,500strokes, no substrate exposure	Pass
Heat Resistance		Adhesion test after exposing in 85°C × 240 hours	100/100
UV protector resistance		Adhesion test after 2.0g/dm ² 80°C × 4 hours applying UV protector	Pass
Low Temp Resistance		Adhesion test after exposing in -40°C for 96 hours	100/100
Humidity Resistance		Adhesion test after exposing in 80°C × 98%RH for 240hours	100/100
Heat Cycle Test		Adhesion test after 10 rounds of : -20°C × 3hours ⇄ 60°C × 3hours	100/100
Color Migration Resistance		Foamed polyethylene, 80g/cm ² load, 60 °C × 48hours, strictly no appearance abnormality	Pass
Sample making condition		Substrate ABS from Musashi Paint EC-UV90- ECO ULTRA VIN Black Paint: Thinner (Z-EC-P515)=100:100(by weight) Pre drying 60°C × 5min UV Light Lamp type : High pressure mercury lamp Peak irradiance 80mW/cm ² Total quantity of light 800mj/cm ² film thickness 17±1 μ m (Start test after leaving it for 1day at RT.)	

*Above values are just for an example from our testing result, and not to indicate the specification.

Before purchasing, kindly decide after careful consideration.

*Product specs may change anytime without prior notice for improvements.