

UV Paint

ECO ULTRA-VIN (EC-UV15- line)

Introduction

Numerous types of paints have been applied for aesthetic, surface protection, chemical resistance and stain resistance purposes in plastic industries. Conventionally, 2K urethane paint was used for automotive interiors however due to the development of skin/hair care products, some parts of automotive interior require even better chemical resistance which 2K urethane paint is no longer able to bare. In addition, ecological product is also in demand, therefore the market has promoting toluene, xylene free product or shifting to water-based product. This product ECO ULTRA-VIN EC-UV15-series is ecological UV paint which has outstanding chemical resistance, and it is ecological (Toluene, Xylene Free) to fulfill requirements. It has also optimized in resin type or solvent type to stabilize the sprayability.

Features

1. Speedy curing
2. Smooth and with rich thickness
3. Excellent levelling
4. Excellent workability
5. Globally procurable
6. Less than 0.1%(by weight) content of each Toluene, Xylene and Ethyl benzene

Product code

EC-UV150 ECO ULTRA-VIN CLEAR
 EC-UV1500 ECO ULTRA-VIN MATTE CLEAR

Recommendable thinner

Z-EC-P315 ULTRA-VIN Thinner (moderate)

Applicable substrate & basecoat

Substrate:

ABS

Basecoat:

EC-P79-line (2K acrylic urethane paint)

Precautions

1. Clean the substrate surface before spraying. Poor adhesion and craters may be caused by contaminant, such as release agents on the substrate.
2. Use the recommended thinner for this paint. The film performance may decrease depending on the type of thinner.
3. Check adhesion, solvent resistance of the substrate, curability etc. before use, since a variety of resin grades have been developed.
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 (0°C to 40°C).
6. Please be aware that this paint is unable to re-coat over the film which completely cured.
7. This paint may cause skin irritation due to the content of low molecule monomer. Please prepare to protect your skin by wearing gloves, masks etc. before usage. Wipe off the paint using water from your skin or clothing once contaminated. Please do not use solvent to clean as it may penetrate through skin.
8. Please refer to the basecoat catalogue for conditions of base coat.
9. Please refer to the SDS etc. for further precautions.

Please contact below for any enquiry upon this product

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Standard spray specifications		
Terms		Specifications
Mixing ratio Paint:Thinner(by weight)		100:70±30
Viscosity(IWATA VISCOMETER NK-2 at 20°C)		8.5±0.5 sec
Spraying method	Orifice diameter	1.3±0.3mm ϕ
	Spray gun pressure	0.3±0.1MPa
Spraying distance		25±5cm
Drying condition	Preheating temperature x time	60°C × 5min
	Lamp type	High pressure mercury (Hg)lamp
	Light quantity*1	800±100mj/cm ²
	Peak illumination*1	100±20mW/cm ²
	The lamp output	100±20W/cm
DFT		20±2 μ m
*Measure using1 EYE UV METER UVPF-A1(EYE GRAPHICS Co., Ltd. PD-365)		

■ Film performance

Testing contents		Test conditions	Results
Adhesion		1mm Cross hatch adhesion Test (10 × 10)	100/100
Hardness		Mitsubishi pencil UNI 1kg of load, scratch method	H-2H
Scratch resistance	Eraser	Sony eraser testing, 1.64kgf, 300rounds, no exposure of substrate	Pass
	Jeans	Rubbing test, 500g/cm ² load, 2000 rounds, no exposure of substrate	Pass
Alcohol resistance		99.5%ethanol rubbing, 500g/cm ² load, 500 rounds, no exposure of substrate	Pass
Thermal resistance		Adhesion test after 85°C × 96hr	100/100
Low temperature resistance		Adhesion test after -40°C × 96hr	100/100
Humidity resistance		Adhesion test after 40°C × 98%RH × 48hr	100/100
Heat cycle resistance		Adhesion test after 10cycles of -20°C × 3hr ⇄ 60°C × 3hr	100/100
Migration resistance		Polyethylene foam, 80g/cm ² , 60°Cload, 48hr, no apparent deficiency	Pass
Conditions for sample making		Substrate: ABS from Musashi paint Basecoat EC-P79- ECO HAIUREX P DEEP BLACK Paint: Hardener(Z-EC-H-300-50): Thinner(Z-EC-K775)=4:1:3(by weight) Flash off 25°C × 5min Drying 80°C × 30min DFT 20±2 μ m Topcoat EC-UV150 ECO ULTRA-VIN CLEAR Paint : Thinner(Z-EC-P315)=100:60(by weight) Preheating 60°C × 5min UV irradiation Lamp type: High pressure mercury (Hg) lamp Peak illumination 100mW/cm Light quantity 800mj/cm2 Dry film 20±2 μ m	

*The listed property value is for your reference only which based on our test result and does not indicate the spec value. Please purchase the product after considering thoroughly.

*Please be aware that for improvement purposes, product spec details may change without prior notice.