

UV Paint

ULTRA-VIN

(UV72- line)

Introduction

In plastic industry, variety of spraying has done for various purposes such as for aesthetics, surface protection, chemical resistance, stain resistance etc. Plastic has been used instead of metal or glass in order to make the mobile product such as cellular phone to be lighter and even compact. Abrasion resistance and chemical resistance have been required and conventional plastic paint such as acrylic lacquer or acrylic urethane paint have its limit on those requirements. To cope these requirements, this product is capable in abrasion and chemical resistance.

Features

1. Quick hardening.
2. Hardening at a low temperature.
3. High cross-link density.
4. Good workability.

Product code*1

UV720	ULTRA-VIN CLEAR
UV7200	ULTRA-VIN MATTCLEAR
UV720KF	ULTRA-VIN CLEAR
UV7200KF	ULTRA-VIN MATTCLEAR

*1 Available in wide range of grade

Recommended thinner

Z-27095 ULTRA-VIN THINNER (fast-dry, moderate)
 Z-27099 ULTRA-VIN THINNER (slow-dry)

Applicable substrate

UV72-

ABS, PC/ABS

P79-, NP79-, UNP79-, GP79-, KNP79-(2K acrylic urethane paint)

UV72-KF

ABS, PC/ABS

736-(1K acrylic lacquer paint)

P79-, NP79-, UNP79-, GP79-, KNP79-(2K acrylic urethane paint)

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. Store the paint in a cool (0 to 40°C), dark place away from direct sunlight.
6. This paint is not suitable to recoating on completely cured film.
7. Due to low-molecular Acrylic monomer content, skin irritation may be caused depending on user. Use a protection mask and gloves while handling this paint. If any contact with the skin or clothes, wash with water as soon as possible. Do not wash with solvent because it may increase skin permeability.
8. Please refer to the undercoat catalogue for spray conditions of undercoat.
9. Please refer to SDS etc for other precautions.

Please contact below for any inquiries upon this product

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Standard spray specifications		
Contents		Specifications
Mixing ratio Paint:Thinner(by weight)		100:110±10
Spraying viscosity(IWATA VISCOMETER NK-2 at 20°C)		8.5±0.5 sec
Spraying method	Orifice diameter	1.3±0.3mm φ
	Gun pressure	0.3±0.1MPa
Spray distance		25±5cm
Conditions	Preheating	60°C × 5min.
	Lamp	High pressure mercury(Hg) lamp
	Light quantity *2	800±100mj/cm ²
	Peak illumination *2	100±20mW/cm ²
	The lamp output	100±20W/cm
Standard film thickness		10±2 μm
*2 Eye Graphics Co.,Ltd. UV Meter UVPF-A1/Head Sensor PD-365		

■ Film performance

Tests		Test conditions	Result	
			UV720	UV720KF
Adhesion		1mm Cross Hatch Adhesion Test (10x10)	100/100	100/100
Hardness		Mitsubishi pencil UNI 1kg of load, scratching method	2H-3H	H-2H
Scratch resistance	Eraser	Sony eraser testing equipment, 1.64kf, 100rounds, no substrate exposure	Pass	Pass
	Jeans	Rubbing tester, 500g/cm ² , 2000cycle, No exposure of substrate	Pass	Pass
Alcohol resistance		99.5%ethanol, 500g/cm ² , 500rounds	Pass	Pass
Heat resistance		Adhesion test after 85°C × 96hr	100/100	100/100
Low temp. resistance		Adhesion test after -40°C × 96h	100/100	100/100
Humidity resistance		Adhesion test after 40°C × 98%RH × 48h	100/100	100/100
Thermal cycle resistance		Adhesion test after 10 cycles of -20°C × 3h ⇄ 60°C × 3h	100/100	100/100
Print resistance		Polyethylene foam, 80g/cm ² , 60°C, 48h, No change in appearance	Pass	Pass
Painting condition		Substrate ABS Under coat KNP79- HAIUREX P BONUL TONE Metallic silver Paint: Hardener(Z-H-300-50): Thinner(Z-27975)=10:1:10(by weight) Flash off 25°C × 5min Baking 80°C × 30min Dry film 3±1 μm		
		Top coat UV720 ULTRA-VIN CLEAR Paint: Thinner(Z-27095)=100:110(by weight). Preheating 60°C × 5min UV irradiation lamp High pressure mercury(Hg) lamp. Peak illumination 100W/cm ² . Light quantity 800mj/cm ² Dry film 10±1 μm		
		Under coat 736- PLA-ACE Metallic silver Paint: Thinner(Z-B605)=100:110(by weight) Flash off 25°C × 5min Baking 80°C × 30min Dry film 7±1 μm		
		Top coat UV720KF ULTRA-VIN CLEAR Paint: Thinner(Z-27095)=100:110(by weight). Preheating 60°C × 5min UV irradiation lamp High pressure mercury(Hg) lamp. Peak illumination 100W/cm ² . Light quantity 800mj/cm ² Dry film 10±1 μm (start after leaving it for one day at room temperature)		
*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.				

Jan. 2020 JRD-UV72-V.E1.7