

2K High scratch-resistance paint for plastics

ECO ABAS UREX MATT

(EC-AM62-line)

Introduction

2K Acrylic urethane paint has an excellent chemical resistance etc, however, it is at low gloss level due to its nature and it causes an issue of easily scratchable. On the other hand, elasticity paint such as soft feeling paint is excellent in scratch resistance at low gloss level, but film performance tends to be lower for chemical resistance etc compared to 2K acrylic urethane paint. Therefore, paint which could cover these disadvantages is in demand.

EC-AM62- ABAS UREX MATT has ability to overcome above issues by optimizing the cross-linking structure of the film. It carries both film performance of 2K acrylic urethane paint, and the scratch-proof feature of soft feeling paint for high scratch-resistance exclusively for low gloss level.

Features

- 1.High scratch-resistance at low gloss level
- 2.Excellent abrasion resistance and chemical resistance
- 3.Tactile with unique moist feeling
- 4.Ecological paint free from toluene, xylene and ethyl benzene

Product code

EC-AM62- ECO ABAS UREX MATT
 various colors (matt black)

Recommended thinner & hardener

(Thinner)

For ABS

Z-EC-K781 ECO HAIUREX P Thinner (Quick-dry)
 Z-EC-K783 ECO HAIUREX P Thinner (Moderate)
 Z-EC-K785 ECO HAIUREX P Thinner (Slow-dry)

For PC, PC/ABS

Z-EC-K653 ECO HAIUREX P Thinner (Quick-dry)
 Z-EC-K656 ECO HAIUREX P Thinner (Moderate)
 Z-EC-K657 ECO HAIUREX P Thinner (Moderate)

(Hardener)

Z-EC-H-760

Applicable substrate and basecoat

ABS, PC, PC/ABS
 EC-P79-LE, EC-GPX79- (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. Please use recommended thinner as it may cause property deterioration depending on the solvent.
3. Check the substrate before applying as various grades and types of substrates which could differ from actual property.
4. Stir paint thoroughly before use. Pour the diluted paint into a stirring tank, and spray while stirring.
5. Avoid direct sunlight and store it in a cool and dark place (−20°C to 40°C).
6. As this is 2k paint, please dilute minimal amount when use. Pot life time of this paint is 4 hours at 20°C. If exceeded more than pot life time, paint may not perform as expected.
7. Please refer to SDS etc for further precautions.

Please contact below for any enquiry upon this product

Musashi Paint Co., Ltd.

11-2 Sayamagahara, Iruma-shi, Saitama, 358-0032, Japan

Sales : Tel. +81-4-2908-7634 Fax. +81-4-2935-0273

R&D Technical : Tel. +81-4-2934-4138 Fax. +81-4-2935-2736

Musashi Paint Co., Ltd. Nagoya Office

Gas Building Komaki 3F, Chuou 1-267 Komaki-shi Aichi, 485-0029

Tel.+81-568-54-2113 Fax.+81-568-54-2117

Musashi Paint Co.,Ltd. Osaka Business Office

1-17-13 Mizuhai, Higashiosaka-shi, Osaka 578-0921

Tel. +81-72-963-1133 Fax. +81-72-963-0606

2K High scratch-resistance paint for plastics

ECO ABAS UREX MATT

(EC-AM62-line)

Standard spray specifications		
Items		Specs
Mix ratio Paint:Hardener:thinner(by weight)		4:1:2±1
Viscosity (IWATA VISCOMETER NK-2, 20°C)		10±1sec
Spraying method	Orifice diameter	1.3±0.3mm φ
	Spray gun pressure	0.3±0.1MPa
Spraying distance		25±5cm
Drying condition	Flash off	25°C × 5min
	Drying	80°C × 30min
DFT		32±2 μm

Film performance

Test item	Test condition	Result
Adhesion	1mm Cross-hatch Adhesion Test (10x10)	100/100
Hardness	Mitsubishi pencil UNI 1kg of load, pencil scratch method	H
Eraser abrasion test	Sony eraser testing equipment, 1.64kgf, 100 rounds, No substrate exposure	Pass
Alcohol resistance	99.5%ethanol rubbing, 500g/cm ² , 100 rounds, No substrate exposure	Pass
Acid resistance	0.1N H ₂ SO ₄ , 5cc, RTx24hr, No appearance deficiency	Pass
Alkaline resistance	0.1N NaOH, 5cc, 55°Cx4hr, No appearance deficiency	Pass
Gasoline resistance	Immerse in regular gasoline for 30min, No appearance deficiency	Pass
Thermal resistance	Adhesion test after exposing in 85°Cx96hr	100/100
Humidity resistance	Adhesion test after exposing in 50°Cx98%RHx120hr	100/100
Heat cycle resistance	Adhesion test after 10 cycles of -20°Cx3hr ⇔ 60°Cx3hr	100/100
Weatherability	Sunshine weather meter, 300hr, within ΔE=1.0	Pass
Spraying condition for sample	PC substrate from Musashi Paint Basecoat EC-P79-LE ECO HAIUREX P Black Paint: Hardener(Z-EC-H-300-50) : Thinner(Z-EC-K775)=4:1:4(by weight) Flash off 25°C×5min Dry 80°C×30min DFT 18±1 μm Topcoat EC-AM62- ECO ABAS UREX MATT BLACK Paint: Hardener(Z-EC-H-760) : Thinner(Z-EC-K783)=4:1:2(by weight) Flash off 25°C×5min Drying 80°C×30min (start test after exposing in room temperature for 7 days) DFT 32±1 μm	
*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.		

Aug 2018 JRD-EC-AM62-V.E1.2