

Ecological 1K PP Primer for PP substrates

ECO PANUCO PP

(EC-SG81-line)

Introduction

From the ecological and environmental protection perspective, highly recyclable substrates such as polypropylene have become standard in automotive market. Simultaneously the demand in good appearance and highly functional paint such as high brightness, high aesthetic, good chemical resistance, and light stability is increasing.

This “ECO PANUCO PP EC-SG81-series” adheres well to PP substrates, and by using our 2K acrylic type of paint, it enables to perform good appearance, chemical resistance and light stability. As it is 1K, workability is good, and it is also, ecological as it's free from BTX.

Features

1. Adheres well to PP substrates
2. Excellent inter-layer adherence between top and under coat
3. Good workability as it is 1K
4. Free from BTX

Production code

EC-SG810 ECO PANUCO PP Clear
EC-SG815 ECO PANUCO PP Gray

Recommendable thinner

Z-EC-B783 ECO PANUCO PP thinner (fast-dry)
Z-EC-B785 ECO PANUCO PP thinner (moderate)
Z-EC-B787 ECO PANUCO PP thinner (slow-dry)

Applicable substrates

PP

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 use BTX-free thinner to clean all the equipment related to spraying.
7. Paint may crystallize when stored under 0°C. In this case, please warm it up by immersing the paint can into the warm water(50-60°C for 2hr) before usage.
8. Please refer to 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:Hardener:Thinner (by weight)		100:50-80
Viscosity(IWATA VISCOMETER NK-2 at 20°C)		10±1sec
Spraying method	Orifice diameter	1.3±0.3mm ϕ
	Spray gun pressure	0.3±0.1MPa
Spray distance		25±5cm
Drying condition	Flash off	25°C × 5min
	Drying	80°C × 30min
DFT		13±2 μ m

■ Film Performance

Test item	Test conditions	Result
Adhesion	1mm Cross hatch adhesion Test (10 × 10)	100/100
Hardness	Mitsubishi pencil UNI 1kg of load	B(substrate hardness: 5B)
Eraser abrasion test	Sony eraser test, 1.64kgf, 300rounds, no substrate exposure	Pass
Alcohol resistance	99.5%ethanol rubbing, 500g/cm ² , 100rounds, no substrate exposure	Pass
Acid resistance	5%HCl, RT × 24hr, no apparent deficiency	Pass
Alkaline resistance	5%NaOH, RT × 24hr no apparent deficiency	Pass
Thermal resistance	Adhesion test after exposing in 85°C × 96hr	100/100
Humidity resistance	Adhesion test after exposing in 50°C × 98%RH × 120hr	100/100
Heat cycle resistance	Adhesion test after 10 cycles of -30°C × 1hr ⇔ 60°C × 1hr	100/100
Weatherability	300hr in Sunshine weather meter within ∠E=1.0	Pass
Spraying condition for sample making	Substrate: PP Undercoat EC-SG810 ECO PANUCO P Clear Paint: thinner(Z-EC-B785)=100:60(by weight) Flash off 25°C × 5min Drying 80°C × 30min DFT 13±1 μm Topcoat EC-GPX79- ECO HAIUREX P GRANDE BONUL Silver Paint :hardener (Z-EC-H-250): thinner(Z-EC-K775)=10:1:8 (by weight) Flash off 25°C × 5min Drying 80°C × 30min(start testing after exposing in RT for 7days) DFT 10±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.		