musashi paint

2K acrylic urethane paint for plastics

NEOUREX

(NW79-line)

Introduction

Lead time for spraying parts will proportionally get shorter as the product life cycle of communication devices/ cameras becomes shorter. Conventional acrylic urethane that was used for these products requires more than 1 week for flash off to check the film performance as well as alcoholic resistance after force dried. However, within the restriction of lead time, the initial film performance and solvent resistance especially against alcohol is emphasized.

For these back ground, NEO UREX is a high performance 2K acrylic urethane paint for plastics suitable for communication devices/ cameras etc. Excellent film performance instantly delivering alcohol resistance, high pencil hardness and good abrasion resistance compared to conventional acrylic urethane paint.

Features

1. Speedy curing, initially performs good alcohol resistance
2. Adheres well to substrate, especially for PC
3. Good scratch resistance and durability
4. Good workability
5. Flawless color achievement for metallic/ pearl color
6. Good recoatability

Product code

NW79- NEOUREX Various colors

Recommended thinner & hardener

(Thinner)

Z-K623 NEOUREX THINNER(quick-dry)
Z-K625 NEOUREX THINNER(moderate)
Z-K627 NEOUREX THINNER(slow-dry)

(Hardener)

Z-H-250(standard)

Applicable substrates

ABS, PC, PC/ABS

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 (-20℃ to 40℃).
6. As this is 2k paint, please dilute minimal amount when use. Pot life time of this paint is 4 hours at 20 degrees. 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

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Standard spray specifications		
Terms		**Specifications**
Mixing ratio Paint:Hardener:Thinner(by weight)		10:1:8±2
Viscosity (IWATA VISCOMETER NK-2 at 20℃)		10±1 sec
Spraying method	Orifice diameter	1.3±0.3mmφ
	Spray gun pressure	0.3±0.1MPa
Spraying distance		25±5cm
Drying condition	Flash off	25℃×5min
	Drying	80℃×30min
DFT		15±5μm

■ Film performance

Test item	Test conditions	Result
Adhesion	1mm Cross Hatch Adhesion Test (10×10)	100/100
Hardness	Mitsubishi pencil UNI 1kg of load	H
Eraser abrasion resistance	Sony eraser testing equipment, 1.64kgf, 100rounds	Pass
Alcohol resistance	99.5%ethanol rubbing, 500g/cm^2, 100rounds, no substrate exposure	Pass
Acid resistance	0.1N H_2SO_4, 5cc, 25℃×24hr, no apparant deficiency	Pass
Alkali resistance	0.1N NaOH, 5cc, 55℃×4hr, no apparant deficiency	Pass
Gasoline resistance	Immerse in regular gasoline for 30min, no apparant deficiency	Pass
Heat resistance	1mm Cross Hatch Adhesion Test after 85℃×96h	100/100
Humidity resistance	1mm Cross Hatch Adhesion Test after 50℃×98%RH×120h	100/100
Thermal cycle resistance	1mm Cross Hatch Adhesion Test after 10cycles of -20℃×3h ⇔ 60℃×3h	100/100
Weatherability	300hr in Sunshine weather meter, within ⊿E=1.0	Pass
Drying condition	Substrate: PC NW79- NEOUREX Silver Paint:Hardener(Z-H-250):Thinner(Z-K625)=10:1:10(by weight) Flash off 25℃×5min Drying 80℃×30min(Start testing after exposing in RT for 7 days) DFT 17±1μm	

*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.

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