FOR INTERIOR AUTOMOTIVE PLASTIC PARTS

Acrytop #500

High-Performance Acrylic Lacquer (1K)

Outstanding color development in metallic & pearl colors

ISO 9001:2015 Certified (Intertek)
TAIEI INDUSTRIES Co.,Ltd. TECHNO PAINT CHEMICALS SECT.



Example ① Acrytop #500 Silver (customer-specific color)



Example ② Acrytop #500 Silver (customer-specific color)



Example ③ Acrytop #500 Gray Metallic

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High-Performance Acrylic Lacquer (1K)

Product Description

A paint with good adhesion to the applicable substrates, delivering a very attractive appearance in a single component. It works well with bright pigments and offers excellent color development, especially in metallic and pearl colors. It has excellent chemical resistance, tack resistance and light resistance (FOM), and performs very well in accelerated weathering (SWOM) for a one-component coating.

1K Lacquer
Highly attractive appearance

Metallic & Pearl
Works well with bright pigments

Chemical & Tack Resistance
Excellent light resistance (FOM)

SWOM 1000 h
Gloss retention ≥ 80%

TAIEI INDUSTRIES Co., Ltd.

We are a paint manufacturer specializing in the development and production of metallic paints for OEM automotive exterior and interior parts.

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Painting Specification

Item	Conditions
Mixing ratio (by weight)	100 / 80–120 Paint / Thinner Varies by color
Paint viscosity (diluted)	12 ± 2 sec Anest Iwata NK-2 cup, 23°C Varies by color
Atomizing air pressure (spray gun)	0.2–0.3 MPa
Standard film thickness	15 ± 3 µm
Standard drying condition	70°C × 20 min

Recommended System

Item	Details
Substrates	ABS, PC/ABS, PC
Thinner (ABS, PC/ABS)	High volatility: 1019-W Standard volatility: 1019 Slow volatility: 1019-SS
Thinner (PC)	Standard: PC-127
Mixing ratio	100 / 80–120 (Paint / Thinner) Varies by color

Paint Film Performance

Test item	Test method	Result
Film hardness	Mitsubishi Hi-Uni pencil	**F**
Initial adhesion	1.0 mm cross-cut, adhesive tape peel	**100/100**
Impact resistance	DuPont impact tester, 2.9 N (300 gf), 20 cm or more	**PASS**
Tack resistance	Gauze, 70°C × 2 h, 500 gf, ø40 mm	**PASS**
Adhesion after humidity exposure	50°C, 98% RH, 240 h, then adhesion test	**100/100**
Water discoloration resistance	5 ml distilled water dropped inside a ring sealed to the test surface; 55°C × 4 h	**ΔE* ≤ 0.8**
Alkali resistance	5 ml NaOH (0.1 N) dropped inside a ring sealed to the test surface; 55°C × 4 h	**ΔE* ≤ 1.5**
Acid resistance	5 ml H_2SO_4 (0.1 N) dropped inside a ring sealed to the test surface; 23°C × 24 h	**ΔE* ≤ 1.5**
Volatile oil resistance	Immersed in No. 1 volatile oil at room temperature (20°C) for 3 h	**PASS**
Dry rubbing fastness	Gakushin-type rubbing tester, 5 layers of gauze, 500 g load × 200 cycles	**PASS** No substrate exposure
Alcohol-based hair liquid resistance	Hair liquid (1 g/100 cm²), 80°C × 168 h, then abrasion test (2 kg × 200 cycles)	**PASS** No substrate exposure
Beef tallow resistance	Beef tallow (2 g/100 cm²), 80°C × 168 h, then abrasion test (2 kg × 200 cycles)	**PASS** No substrate exposure
Accelerated light resistance	FOM (fade meter), 400 h	**Gloss retention ≥ 80%** **ΔE* ≤ 3.0**
Accelerated weathering	SWOM (sunshine weather meter), 1000 h	**Gloss retention ≥ 80%** **ΔE* ≤ 3.0**

Accelerated light resistance / weathering: gloss retention of 80% or more and ΔE* of 3.0 or less, with no cracking, peeling or chalking.