TAIEI TECHNO PAINT CHEMICALS SECT.

FOR INTERIOR AUTOMOTIVE PLASTIC PARTS

Ecotop #100

High-Performance BTX-Free Acrylic Lacquer (1K)

Sunscreen-resistant



ISO 9001:2015 Certified (Intertek)

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High-Performance BTX-Free Acrylic Lacquer (1K)

Product Description

An environmentally considerate, TX-free one-component acrylic lacquer that contains no toluene or xylene, solvents with a high environmental load. It delivers excellent color development in metallic and pearl colors, together with superior chemical resistance, tack resistance and light resistance (FOM). It also provides sunscreen and hand-cream resistance — performance that conventional one-component paints could not achieve.

BTX-Free
No toluene or xylene

Sunscreen-resistant
Also hand-cream resistant

FOM 400 h
Gloss retention ≥ 80%

70°C × 20 min
Standard drying

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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Example ① Ecotop #100 Silver (customer-specific color)



Example ② Ecotop #100 Silver (customer-specific color)



Example ③ Ecotop #100 Silver (customer-specific color)

Painting Specification

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

Recommended Thinner

Substrate **ABS / PC/ABS**

Fast evaporation	Standard evaporation	Slow evaporation
PC-128	**PC-128-SS**	**PC-128-SSS**

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℃ × 2 h, 500 gf, ⌀40 mm	**PASS**
Adhesion after humidity exposure	50℃, 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℃ × 4 h	**ΔE* ≤ 0.8**
Alkali resistance	5 ml NaOH (0.1 N) dropped inside a ring sealed to the test surface; 55℃ × 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℃ × 24 h	**ΔE* ≤ 1.5**
Volatile oil resistance	Immersed in No. 1 volatile oil at room temperature (20℃) 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℃ × 168 h, then abrasion test (2 kg × 200 cycles)	**PASS** No substrate exposure
Beef tallow resistance	Beef tallow (2 g/100 cm²), 80℃ × 168 h, then abrasion test (2 kg × 200 cycles)	**PASS** No substrate exposure
Sunscreen resistance	Sunscreen cream (0.5 g/100 cm²), 55℃ × 4 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** No cracking, peeling or chalking.