FOR AUTOMOTIVE EXTERIOR METAL PARTS & GENERAL INDUSTRIAL PARTS

Acryoh #4000

Thermosetting Acrylic Paint

Outstanding metal adhesion, high gloss and corrosion resistance

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



Example ① #4000 White (customer-specific color)



Example ② #4000 Gray Metallic (customer-specific color)



Example ③ #4000 Silver Metallic (customer-specific color)

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Thermosetting Acrylic Paint

Product Description

Suitable not only for automotive exterior parts but also for a wide range of industrial products such as eyeglass frames, home appliance parts and machinery. It adheres outstandingly to metals (steel, galvanized steel, aluminum, etc.), with suitable chemical pretreatment. A well-balanced coating offering high gloss, corrosion resistance, weather resistance and chemical resistance.

Metal Adhesion
Steel, galvanized steel, aluminum*

High Gloss
Weather & chemical resistant

Corrosion Resistance
Salt spray 480 h · CASS 240 h

150°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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Painting Specification

Item	Conditions
Mixing ratio (by weight)	100 / 50–70 Paint / Thinner May vary slightly by color
Paint viscosity (diluted)	14–17 sec Anest Iwata NK-2 cup, 23°C Varies by color
Atomizing air pressure (spray gun)	0.2–0.3 MPa
Standard film thickness	17–23 µm
Standard drying condition	150°C × 20 min

Recommended System

Item	Details
Substrates	Steel, galvanized steel, aluminum, etc. *Chemical pretreatment required
Thinner	Standard volatility: SGL-40 For metallic paint: AD For electrostatic: ST-41
Mixing ratio	100 / 50–70 (Paint / Thinner) The ratio may vary slightly by color

Paint Film Performance

Test item	Test method	Result
Film hardness	Mitsubishi Hi-Uni pencil	**H–2H**
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**
Alcohol resistance	Traverse tester, absorbent cotton, 80% ethanol 0.5 ml, 1 kgf/cm², 30 cycles or more	**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
Accelerated weathering	SWOM (sunshine weather meter), 1000 h	**Gloss retention ≥ 80%** **ΔE* ≤ 3.0**
Salt spray test	Test panel tilted at 20°±5°; 5% saline sprayed at 35 ± 2°C for 480 h. Panels are cross-cut before the test.	**PASS** Rust width ≤ 2.0 mm
CASS test	5% saline with acetic acid and copper chloride adjusted to pH 3.0, atomized at 50 ± 5°C and fallen naturally onto panels tilted at 20°±5° for 240 h. Panels are cross-cut before the test.	**PASS** Rust width ≤ 3.0 mm
Filiform rust resistance (TAC)	1 cycle = 24 h salt spray, then 120 h humidity test (40°C, 85% RH), then 24 h at room temp.; 8 cycles. Panels are cross-cut before the test.	**PASS** Rust width ≤ 3.0 mm