FOR AUTOMOTIVE EXTERIOR METAL PARTS

Acryoh #3800

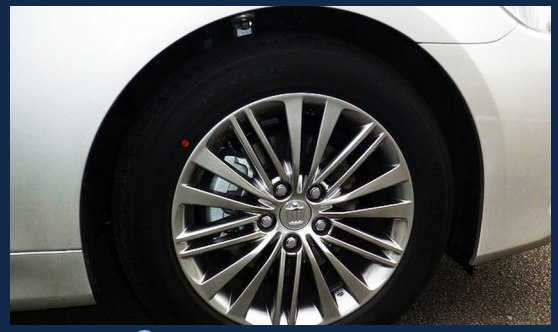
Thermosetting Acrylic Paint (Top Coat Only)

Clear top coat for wheels and other cast metal parts

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



Example ① #3800 Clear (customer-specific color)



Example ② #3800 Clear (customer-specific color)



Example ③ #4000 Silver Metallic + #3800 Clear

FOR AUTOMOTIVE EXTERIOR METAL PARTS

Acryoh #3800

Thermosetting Acrylic Paint (Top Coat Only)

Product Description

A coating for metal with many years of supply to cast metal automotive exterior parts, and a very reliable product. It is mainly used as a clear top coat for exterior cast parts such as aluminum wheels and steel wheels, offering excellent weather resistance and workability.

Top Coat Only
Clear

Proven Supply Record
Cast metal parts for many years

Weather Resistance
Excellent workability

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 / 30–40 Paint / Thinner May vary slightly by color
Paint viscosity (diluted)	12–14 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
Application	Top coat only, for automotive exterior metal parts Aluminum wheels, steel wheels, etc.
Thinner	Standard volatility: SGL-40 For electrostatic: ST-41
Mixing ratio	100 / 30–40 (Paint / Thinner) The ratio may vary slightly by color
Test coating system	Chemical conversion treatment → Acryoh #4000 Silver Metallic → Acryoh #3800 clear top coat (basis of the film performance data)

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 ≥ 90%** **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