

DRY METAL FLAKE GLITTER SYSTEM

VACUUM-METALLIZED POLYESTER AUTOMOTIVE SPECIAL FX SUBSTRATE

● **AUTOMOTIVE & MARINE OEM CERTIFIED**



100% LIGHTFAST
18-Mo Miami Sun Test



SOLVENT PROOF
MEK / 2K Clear Safe



WATER PROOF
Zero Dye Bleed / Migration



350°F / 177°C
Max Process Temperature

Flake King™ Polyester Metal Flake is specifically engineered to meet the uncompromising requirements of elite custom automotive refinishers, marine gelcoats, theme park fabrication, commercial coating applicators, and industrial manufacturers. Fabricated from precision-calibrated vacuum-metallized Polyethylene Terephthalate (PET) with high-adhesion thermoset resin coatings, it provides maximum specular reflectance, intense chromatic saturation, and permanent chemical resistance.

01 LIGHTFASTNESS & WEATHERING

Tested in Miami, Florida under maximum direct semi-tropical sunlight without protective glass, UV shielding, or plastic films. After **18 continuous months of exposure**, zero discernible color degradation, fading, or reduction in metallic brilliance was detected.

02 CHEMICAL & SOLVENT RESISTANCE

Demonstrated total resistance to aggressive commercial solvents: **MEK, MIBK, isopropyl alcohol, xylene, and aromatic naphtha**. Fully stable for wet suspension in solvent-borne acrylics, 2K polyurethanes, epoxies, polyesters, and waterborne systems.

03 THERMAL PROCESS LIMITS

Endures continuous process temperatures up to **177°C (350°F)** without loss of colour saturation or reflective brilliance. Actual endurance depends on dwell time, shear friction, and ambient bake cycles.

04 SUSPENSION & APPLICATION DYNAMICS

Possesses a significantly lower specific gravity than wet liquids or gel coats, enabling **uniform, non-sagging suspension** in clears and carriers (FK50). Also perfectly balanced for fluid pneumatic dry-gun delivery via Flake King 500, 550, 1000, and 1050.

05 FILM ADHESION & ANTI-MIGRATION

Thermoset surface coatings passed standard **cellophane tape cross-hatch, 180° fold-and-crease, and wrinkle elongation tests** without foil delamination. Transparent pigments are permanently bound, preventing color bleeding into topcoats.

06 TOXICITY, PURITY & QUALITY CONTROL

Formulated from precision-cut aluminum-metallized PET. Certified **Non-Toxic, Lead-Free, Heavy Metal-Free**, and REACH Article 33 compliant. Double-sifted through micro-mesh screens to remove any irregular particles.

STANDARD GEOMETRIC SIZING & GUN APPLICATOR GUIDE

STANDARD SIZE	MICRON (MM)	DECIMAL INCH	WET SPRAY TIP	DRY GUN DELIVERY SYSTEM	1L CARRIER RATIO
Ultra Small	50 µm	.002"	0.3mm+ Airbrush / Mini Gun	Flake King 500 / 550 / 1000	30g (Gun Mount)
Small	100 µm	.004"	0.5mm Airbrush / 1.2mm Gun	Flake King 500 / 550 / 1000	40g
Medium (Industry Standard)	200 µm	.008"	1.4mm Fluid Tip	Flake King 1000 / 1050	60g (Standard Burial)
Large	375 µm	.015"	1.8mm Fluid Tip	Flake King 1000 / 1050	80g
Extra Large	625 µm	.025"	2.2mm Fluid Tip	Flake King 1000 / 1050	100g (Heavy Flake)
XL / DXL Heavy	1025 – 1500 µm	.040" – .060"	2.5mm+ Tip (Wet)	Flake King 1050 (Dry Only)	120g – 150g

APPLICATION GUIDELINES & CHEMICAL LIMITATIONS

- Cut Edge Exposure:** Microscopic edge aluminum is exposed during precision diamond-cutting. While safe in typical 2K automotive cycles, avoid prolonged immersion in strong alkaline caustics.
- Acid Exposure:** Concentrated sulfuric acid will cause chemical delamination of the protective coating from the aluminum foil.
- Test Panels:** Pre-production spray-out panels are strongly recommended to establish optimum clearcoat build and sanding burial depths.

The information provided is based on controlled laboratory evaluations and real-world exposure testing. Flake King and Coast Airbrush Europe make no warranties beyond standard material specifications. Always adhere to local VOC and personal safety regulations when spraying.

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