



Electrocoat AquaEC™ 5000

Resilient, single layer e-coats for
exceptional protection.



AN AXALTA COATING SYSTEMS BRAND

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AquaEC 5000 is a product family of single layer cathodic e-coat primers based on acrylic resins that are highly UV resistant. They have been specially developed to provide excellent coverage on the first run. Their long-term weathering resistance, mechanical properties and powerful corrosion protection, make these e-coats ideally suited for bulk coating of outdoor equipment. As with all of Axalta's E-Coats, AquaEC 5100 and AquaEC 5500 are environmentally-responsible and HAPS compliant, thanks to their lead-free, water-based formulations.

Depending on requirements, we offer three different types of AquaEC E-Coats: AquaEC 5100 is a pigmented 2K e-coat, while the 1K AquaEC 5500 comes in both a pigmented and a clear version. The pigmented version offers high-film builds of more than 35 µm.

AquaEC 5100 delivers top-of-the-range performance and is mainly used as a topcoat in the agricultural and forklift sectors. It is also widely used in the manufacture of domestic appliances, windows, door fittings and steel furniture. Its key characteristics are superior UV-resistance, which is comparable to a 2K polyurethane topcoat, effective corrosion protection, good color control, low VOC and high coating efficiency.

AquaEC 5500 is available in many colors for painting a vast array of different items such as garden furniture, leisure equipment, household goods, forklifts, agricultural equipment and motor accessories.

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The transparent version of AquaEC 5500 is perfect for all high-gloss, non-ferrous metals including gold, silver, copper, chromium, nickel and brass. AquaEC 5500 clear protects surfaces from external influences and every day wear and tear. Typical applications include watches, jewellery, spectacle frames, electrical equipment, kitchen and bathroom fittings and furniture.

Highlights:

- AquaEC 5100 pigmented 2K version used as a single coat system to offer best quality results.
- AquaEC 5500 pigmented 1K version used as a single coat system with excellent properties.
- AquaEC 5500 transparent 1K version used as a decorative clearcoat for high gloss metallic surfaces.

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AquaEC 5000

Attribute:

AquaEC 5100

AquaEC 5500

Color	Various	Various
Resin/Pigment Feed Ratio	2.5 - 3.5 : 1	1 component
VOC (lbs./gal) – RACT(NSPS)	1,3 - 2,4% (VOC	4,0-8,0 (VOC - EU)

Film Properties:

Coating thickness	20 - 50 μ	20 - 60 μm
Humidity	1000 hrs no changes	1000 hrs no changes
Corrosion	500 hrs creep < 2mm	400 hrs < 2mm
Erichsen Cupping Test	≥ 4 mm	≥ 4 mm
UV Resistance	1000 hrs < 30% loss of gloss at 60°	1000 hrs < 15% loss of gloss at 60°
Recommended Bake:	150 - 195°C	150 - 195°C
Minimum Bake	25 @ 150°C	25 @ 150°C
Crosshatch adhesion	GTO- 1	GTO-1

Commercial Uses/Approvals:

Automotive	●	●
Truck & Bus		
Automotive parts and accessories	●	●
Appliances		
General Industrial	●	●
Agricultural equipment	●	●
Office and patio furniture	●	●
Sports/Recreation/Exercise	●	●
General Finishing		
HVAC		
Military		
Decorative	●	●
Castings		
Electronics		

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