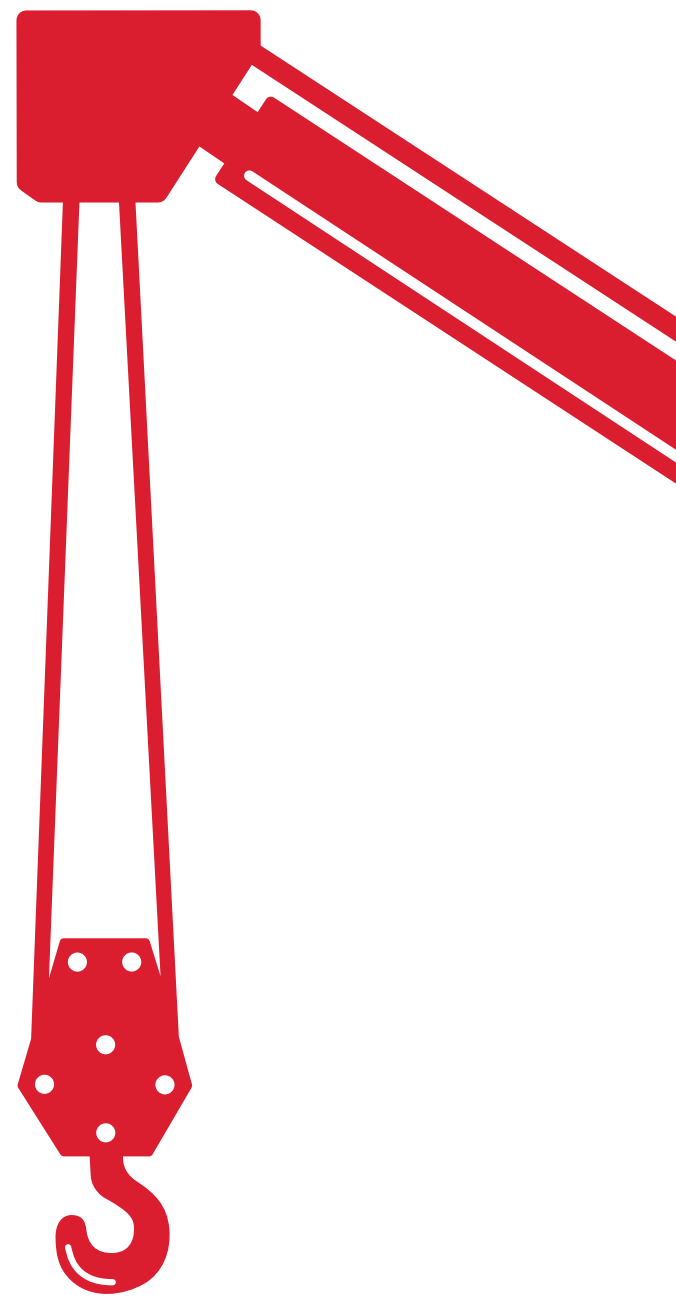




# Electrocoat Aqua EC 5100 and EC 5500

Resilient, single  
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Resilient, single layer e-coats for exceptional protection.

Aqua EC 5100 and Aqua EC 5500 from Axalta Coating Systems are highly UV resistant, single layer cathodic e-coats based on acrylic resins. 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 Aqua e-coats, EC 5100 and EC5500 are environmentally-friendly and HAPS compliant thanks to their lead-free, water-based formulations.

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

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

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

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

**Fully automatic process:** reliable, proven, low energy and maintenance costs

**Cost control:** controlled film thickness resulting in high "first run ok" rate, maximal transfer efficiency

**High performance:** superior UV resistance, mechanical properties

**Ecological:** water soluble, very low in VOCs

**Adaptable to your specifications:**

**Aqua EC 5100:** Pigmented 2K version used as a single coat system to offer best quality results.

**Aqua EC 5500:** Pigmented 1K version used as a single coat system with excellent properties.

**Aqua EC 5500 clear:** Transparent 1K version used as a decorative clearcoat for high gloss metallic surfaces.

**Electrocoat Aqua EC 5100 and EC 5500**

**Acrylic cathodic e-coats that offer:**

- Single layer application
- Superior UV-resistance
- Good corrosion protection
- Advanced colour control
- High coating efficiency
- Application on a wide range of substrates
- REACH compliancy
- Economic benefits - high yield, excellent transfer efficiency
- Smooth surface finish

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**Generic properties: Aqua EC 5100 and EC 5500**

<b>Mechanical properties</b>	Adhesion test	DIN EN ISO 2409		Gt 0 - 1
	Erichsen Cupping test	DIN EN ISO 1520		≥ 4 mm
<b>Weather resistance</b>	UV-resistance	DIN EN ISO 11507	1000 h	< 15% loss of gloss at 60°
<b>Anti-corrosion</b>	Salt spray	DIN EN ISO 9227 NSS	500 h (EC5100) 400 h (EC5500)	creep: < 2 mm
	Humidity	DIN EN ISO 6270-2		creep: < 2 mm No changes

**Generic properties: Aqua EC 5500 clear**

<b>Mechanical properties</b>	Adhesion test	DIN EN ISO 2409		Gt 0 - 1
	Erichsen Cupping test	DIN EN ISO 1520		> 5 mm
	Pencil hardness	DIN EN 13523-4		Min. 2H
	Cylindrical mandrel	DIN EN ISO 1519		6 mm
<b>Anti-corrosion</b>	Salt spray	DIN EN ISO 9227 NSS	48 h	creep: < 2 mm
	Humidity	DIN EN ISO 6270-2	48 h	No changes