

AquaEC™ 3500 EP

Edge Protection



AquaEC™ 3500 EP is the latest generation of cathodic tin-free electrodeposition coatings from Axalta.

This new product shows superior corrosion protection performance at sharp edges.

Customers benefit from a highly efficient system due to a low dry film density. On top, the modular mixing concept allows to customize the optimum cost solution whilst maintaining the performance.

The product does not contain organic tin compounds and is compliant with REACH regulations. The new ecoat technology offers an energy saving potential due to its full cure even at a baking temperature of 150°C and has excellent chemical and corrosion resistance in combination with very good mechanical properties and adhesion on various substrates.

Manufacturers in many sectors are looking for solutions that will improve performance and meet increasingly complex market demands that reflect different substrates, parts designs, and pretreatment options.

The technology behind the new AquaEC™ 3500 EP is specifically formulated to meet those requirements.

Market segments

- Automotive parts and accessories
- Agriculture and construction equipment
- General industry
- Industrial job coat

Key features and benefits

- Excellent edge corrosion protection
- Free of tin and toxic heavy metals
- Low curing temperature
- Robust operation window
- Superior corrosion protection performance
- Stable UF flux rate
- REACH and Haps compliant



Properties

Coating thickness	22 ± 2 µm / > 35µm
Cross cut adhesion	GT 0 – GT 1
Erichsen Cupping	≥ 4 mm
Break-oil resistance	24h
Chemical resistance	Rating 0 – 1
Humidity Test DIN EN ISO 6270-2	504 h No change
Salt Spray Test DIN EN ISO 9227	504 h d < 1.0 mm 1000 h d < 1.5 mm
Cyclic Corrosion Test DIN EN ISO 11997-1 / Cycle B	10 Cycles d < 2 mm
VW Cyclic Test PV 1210	60 Cycles d < 1.5 mm
Edge Corrosion DIN EN ISO 4628-1	Rating 0-1