

product datasheet

Evoshield® coating



www.evolutionfasteners.co.uk



What is Evoshield®?

Evoshield® is our trade marked fastener coating. It is a non-organic, tri-layered ceramic surface coating developed to attain optimum performance in the various pollutive and atmospheric conditions that cause corrosion.



Layer 1: metallic zinc
Layer 2: ceramic layer
Layer 3: resin layer

The distinguishing feature of Evoshield® is the tight joining of the baked resin layer and the ceramic layer thanks to the cross-linking effect. These layers are bonded together with the metallic zinc layer through chemical reactions, and this unique method of combining layers results in a rigid and dense combination of the coating films. Evoshield® treatment does not attribute its anti-corrosion properties to merely a single material, but the synergy of these three layers, which combined have superb rustproof qualities.

Compatible with metal coated and painted surfaces, fasteners coated with Evoshield® are resistant to acid and alkaline attack, galvanic corrosion and hydrogen embrittlement. These fasteners conform to corrosive gas test standard (Kesternich) DIN50018 and give a salt spray fog test to exceed (JISZ2731) 1,000 hours (ASTM B117).

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Benefits of Evoshield®

- Available with 500hr/1,000hr hour salt spray rating (please refer to the relevant data sheet for details of the salt spray rating of a specific product or call/e-mail us)
- Superior corrosion resistance. Excellent against gas, weathering and other corrosive factors including salt water.
- Resistant to acid and alkaline attack, galvanic corrosion and hydrogen embrittlement.
- Corrosion resistance against scratches. Composite layers minimise the effect of scratches on the protection coating.
- Electrolytic corrosion resistance. Less contact corrosion with other metals.
- Low process temperature. The drying temperature below 200°C protects the products from metallo graphic changes.
- Paintable
- Available in a variety of colours:



Silver Evoshield®



Blue Evoshield®



Grey Evoshield®



Green Evoshield®

Ask for Evolution



Drywall Screws



Tek Screws



Collated Screws



Masonry Screws



Anchors



Clips & Brackets