

PROCESSES DATASHEET

ASTEC 1000 ZINC FLAKE

Zinc Flake is another high end sacrificial corrosion protection coating, however one which offers a number of significant characteristic that electroplating cannot.

One of the most important benefits of this process is the absence of Hydrogen and hence elimination of the risk of Hydrogen embrittlement to high tensile steels.

The process allows clients to have the appearance and finish flexibility of paint systems but with the coating and protection benefits of electroplating. In comparison to other aesthetically similar products, i.e. powder paints and electrophoretic paints, Zinc Flake's sacrificial properties offers protection around areas of in-service damage, even though the layer is much thinner than those of the paints.

Our spray application makes the process ideal for larger and/or more intricate components or those that require controlled application and masking.

INDUSTRY SECTORS SUPPORTED

| | |
|------------------|---------------------|
| Automotive | Mining |
| Military | Electronics |
| Defence | General Engineering |
| Construction | Retail |
| Rail | Marine |
| Renewable Energy | |

OEM CUSTOMERS



KEY PROPERTIES

- ▮▮▮ Controllable coating thickness
- ▮▮▮ Easy multi layer build up
- ▮▮▮ Spray application
- ▮▮▮ Suitable for masking requirements
- ▮▮▮ Available on various substrates
- ▮▮▮ No Hydrogen exposure
- ▮▮▮ Thinner coating compared to paints such as EP and powder
- ▮▮▮ Reduced white corrosion formation

KEY BENEFITS

- ▮▮▮ Excellent sacrificial corrosion protection
- ▮▮▮ No Hydrogen embrittlement
- ▮▮▮ Ultraviolet light stability
- ▮▮▮ Integrated lubricants
- ▮▮▮ Range of colours and gloss levels
- ▮▮▮ Excellent galvanic corrosion protection
- ▮▮▮ Excellent chemical resistance
- ▮▮▮ Excellent adhesion to electroplating

PERFORMANCE

RC hrs

Up to 3000hrs*

Actual results are effected by many non-coating factors including substrate and component geometry.

*Adaptable to and subject to specific requirements



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