

“ EPOSEAL 500”

EPOSEAL 500 is the trade name for applying a highly corrosion resistant zinc and epoxy coating on fasteners. This product demonstrates several improvements over previous generations including, excellent corrosion resistance **without the use of lead**. The system is capable of bulk processing suitable small parts obviating the need for individual jigging or wiring up, thus being competitively priced.

EPOSEAL 500 is available with zinc Nickel-plated undercoat for extreme corrosion resistance where touch marks, head fill or air locking in deep recesses requires the 500 hours salt spray but this technique may require hydrogen de-embrittlement on certain types of fasteners.

Being deposited by electrophoresis, the coating is of uniform thickness and therefore prevents the blocking of threads associated with conventional painting systems. It has been accepted by some leading fastener suppliers as the only way to give a corrosion resistant, cosmetically pleasing, electrochemically inert, black coating to threaded parts such as instrumentation screws and fasteners in general. The process does not give rise to hydrogen embrittlement and therefore can safely be used on high tensile parts without the need for de-embrittlement.

Eposeal 500 is formulated with a low organic solvent, resulting in a Volatile Organic Compound (VOC) content of less than 180 g/l and HAPs (Hazardous Air Pollutants) content of less than 12g/l.

COMMERCIAL USE

Cationic epoxy electrocoats are the benchmark for corrosion resistance and are utilised when high performance requirements are demanded. Listed below are a number of industries using these products:

- Agriculture/Construction Equipment
- Automotive Parts & Accessories
- Compressors
- Fasteners
- Generators
- Heavy Duty Trucks
- Marine Engines
- Switchgear
- Transformers

Eposeal 500 is a service mark of T W Bayston Limited. We would be grateful if you could acknowledge this when referring to the process.

TWB Finishing

SURFACE TECHNOLOGY

FILM PROPERTIES

Property	Test Method	Performance
Film Thickness	Magnetic	10 - 30 μ
Gloss – 60 Degree	ASTM D523-89	60 – 90%
Pencil Hardness	ASTM D3363-92A	2H +
Cross-Hatch Adhesion	ASTM D3359-95	4B – 5B
Impact	ASTM G14-93	Pass 1kg/40cm
Salt Spray	ASTM B117-95	500 Hours+
Humidity	ASTM D1735-92	500 Hours+
Water Immersion	ASTM D870-92	250 Hours+
Throw power	FLTM EU BI 20-2	100%

Above properties were achieved on Cold Rolled Steel Lab Panels, Zinc Phosphate Pre-treatment 15 μ Average Film Thickness, Cure 20 Minutes @ 125°C

**FOR FURTHER INFORMATION, SAMPLES OR QUOTATION
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