ZinKlad™ 500

Hexavalent Chromium-Free Coatings



SVHC Compliant Coating

ZinKlad 500 is an economical, high performance coating for automotive applications. Hexavalent chromium-free with a deposit hardness above 200 HVN. It meets today's requirements for coatings which comply with REACH and SVHC directives.

ZinKlad 500 is approved by global automotive manufacturers including General Motors and VW-Audi and is particularly recommended for fasteners and fluid transfer tubes. Production proven for over 10 years, it delivers exceptional corrosion resistance coupled with consistent performance.

On threaded applications when used with the appropriate **Torque 'N' Tension** control fluid it provides a uniform coefficient of friction. For fluid transfer tubes, corrosion resistance can be maintained, even after post-plate deformation.

When it comes to providing compliant coatings with outstanding corrosion protection **ZinKlad 500** delivers.

Key Features

- Excellent Corrosion Protection for the Plated Substrate
- Compliant with REACH and SVHC Directives
- Low Coating Thicknesses
- Production Proven
- Global Availability







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ZinKlad 500 combines an homogenous metallic zinc-iron deposit (0.3 – 0.5% w/w Fe) of 8 microns minimum thickness, with a high build (iridescent color) **TriPass ELV** passivate.

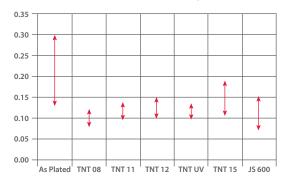
The zinc-iron deposits are applied from our **Enviralloy FE** alkaline process which is formulated to provide even bright deposit with exceptionally uniform alloy distribution.

HydroKlad SI and **Torque 'N' Tension** topcoats provide increased corrosion resistance and modify surface properties to ensure uniform torque and clamping characteristics.

Combined these ensure that **ZinKlad 500** consistently meets minimum performance demands for corrosion resistance and torque modification.

Corrosion Performance (ASTM B-117)		
	First White Corrosion	First Red Corrosion
ZinKlad 500	200 h	500 h

CoF - MacDermid Friction Control Fluids on Zinc-Iron Electroplate



Recommended Processes Used To Create ZinKlad 500 Coatings		
Zinc	Provides the sacrificial protection	
Enviralloy Fe	Alkaline, fast plating rates for rack and barrel applications	
Trivalent Passivates	Protects the zinc deposit from white rust	
TriPass ELV 2000	Excellent corrosion resistance, iridescent color	
TriPass ELV 7000	Cobalt free formulation, blue to iridescent color	
TriPass ELV 7500	Cobalt free formulation, recommended for paint adhesion	
Topcoat	Improves corrosion resistance and modifies friction properties	
Torque 'N' Tension 11	Average CoF 0.11, range 0.09 – 0.13 for fasteners	
Torque 'N' Tension 12	Average CoF 0.15, range 0.10 – 0.13 for fasteners	
Torque 'N' Tension 15	Average CoF 0.15, range 0.12 – 0.18 for fasteners	
HydroKlad SI	Recommended for fluid transfer tubes and brake callipers	



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