1000 ZinKlad®



The toughest high performance coating

ZinKlad 1000 is a high performance coating for automotive applications. Hexavalent chromium-free with a deposit hardness above 500 HV, it is extensively used for fasteners (including exterior and self-thread cutting) and fluid transfer tubes. Production proven for over 15 years, it delivers exceptional corrosion resistance coupled with consistent performance.

ZinKlad 1000 coating consists of an alkaline zinc-nickel layer, providing a homogenous metallic deposit with a minimum thickness of 8 µm, a trivalent chromium passivate that imparts a blue / silver or iridescent color and protects the coating against white corrosion, and a specially selected sealer modifying surface properties to ensure the desired torque and clamping characteristics, while increasing corrosion resistance. For fluid transfer tubes, corrosion resistance is maintained, even after post-plate deformation.

ZinKlad 1000 is specified by global automotive manufacturers including Stellantis, Ford, GM, Renault, and VW-Audi. There are more than 40 application lines around the world producing ZinKlad 1000 every day.



Corrosion performance after heat treatment (ASTM B117 / ISO 9227 NSS)		
	First white corrosion	First red corrosion
ZinKlad 1000	240 h	1000 h

Features & Benefits

- Global availability
- Extensively specified
- Low coating thicknesses
- Resistant to white corrosion
- Blue to iridescent color
- Cobalt-free formulations available
- Exceptional corrosion protection for the plated substrate
- Friction and functional properties meet the requirements specified by global OEMs for fastener finishes

For more information, please contact us at:
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MacDermid Enthone
INDUSTRIAL SOLUTIONS



1000 B ZinKlad®

The toughest high performance coating

ZinKlad 1000 B is a high performance black coating for automotive applications. Hexavalent chromium-free, with a deposit hardness above 500 HV, it is extensively used for exterior, interior, self-thread cutting fasteners, and steel pressings.

ZinKlad 1000 B combines an homogenous metallic zinc-nickel deposit with a minimum thickness of 8 µm, with a trivalent passivate. An optional speciality topcoat can be added for increased corrosion resistance and modified surface properties ensuring uniform torque and clamping characteristics.

When used in conjonction with the appropriate coating for torque and tension adjustment, **ZinKlad 1000 B** provides exceptional corrosion resistance and a consistent coefficient of friction.

ZinKlad 1000 B is available in 3 performance levels:

B – Glossy finish

B (EXP) – Glossy finish with an average 0.12 coefficient of friction

B (HG) – High gloss finish with an average 0.11 coefficient of friction

ZinKlad 1000 B is specified by global automotive manufacturers including Ford, GM, Stellantis, Renault, and VW-Audi. Today there are more than 40 application lines around the world producing **ZinKlad 1000 B** every day.



Corrosion performance after heat treatment (ASTM B117 / ISO 9227 NSS)		
	First white corrosion	First red corrosion
ZinKlad 1000	240 h	1000 h

Features & Benefits

- Global availability
- Extensively specified
- Low coating thicknesses
- Glossy and uniform black finish
- Exceptional corrosion protection for the plated substrate
- Friction and functional properties meet the requirements specified by global OEMs for fastener finishes

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