# ZinKlad<sup>™</sup> 1000 B

Hexavalent Chromium-Free Coatings



## **Black Finish High Performance Coating**

**ZinKlad 1000 B** the high performance black coating for automotive applications. Hexavalent chromium-free, with a deposit hardness above 500 HVN it is extensively used for exterior, interior, self-thread cutting fasteners and steel pressings. Production proven for over 10 years, it delivers an exceptional black appearance and corrosion resistance.

**ZinKlad 1000 B** is specified by global automotive manufacturers including Chrysler-FIAT, Ford, GM, PSA, Renault and VW-Audi. Today there are more than 15 application lines around the world producing **ZinKlad 1000 B** every day.

**ZinKlad 1000 B** coupled with the appropriate Torque 'N' Tension coating provides exceptional corrosion resistance and a consistent coefficient of friction. It 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

When it comes to providing outstanding coating aesthetics and corrosion protection that automotive engineers rely on, **ZinKlad 1000 B** delivers.

### **KEY FEATURES**

- Glossy and Uniform Black Finish
- Exceptional Corrosion Protection
- Low Coating Thicknesses
- Extensively Specified
- Global Availability







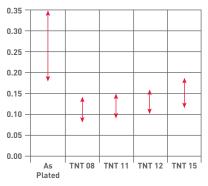
#### ZinKlad 1000 B Performance Data

ZinKlad 1000 B combines an homogenous metallic zinc-nickel deposit of 8 microns minimum thickness, with a black passivate. This hard metallic coating is further protected against the formation of white corrosion products by the application of trivalent passivate with an option of a specialist topcoat layer. TriPass ELV trivalent chromium passivates impart a black color. Torque 'N' Tension topcoats provide increased corrosion resistance and modify surface properties to ensure uniform torque and clamping characteristics. Combined these ensure that ZinKlad 1000 B consistently meets minimum performance demands for corrosion resistance and torque modification.

Corrosion Performance (ASTM B-117)		
	First White Corrosion	First Red Corrosion
ZinKlad 1000 B	240 h	1000 h

. . . .

#### MacDermid Friction Control on Zinc-Nickel Electroplate



Recommended Processes Used To Create ZinKlad 1000 B Coatings		
Zinc-Nickel	Provides the sacrificial protection	
Enviralloy Ni 12-15	Alkaline, particularly recommended for plating fasteners	
Enviralloy Ni 12-15 G2	Alkaline, Next generation of Enviralloy Ni technology, recommended for plating fasteners	
Enviralloy NiFlex 12	Alkaline, deposits resist post-plate deformation	
Enviralloy NiSpeed	Alkaline, fast plating rates for rack and barrel applications	
Kenlevel Ni 12-15	Acid, recommended for plating cast iron and hardened steel	
Trivalent Passivates	Protects the zinc deposit from white rust	
TriPass ELV 5100*	Good black appearance with excellent corrosion resistance	
TriPass ELV 7100*	Good black appearance, cobalt free formulation	
Topcoat	Improves corrosion resistance and modifies friction properties	
Torque 'N' Tension 08	Average CoF 0.11, recommended for self-cutting screws	
Torque 'N' Tension 11,12,15	Average CoF 0.11, 0.12, 0.15 for fasteners	
Torque 'N' Tension 15 Black	Average CoF 0.15, fasteners	
forque it fension to Buen		

\* Recommended for use with sealer



For more information, please contact us at: **Email:** isenquiries@macdermidenthone.com www.macdermidenthone.com/industrial © 2017 MacDermid.