

ZinKlad® 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



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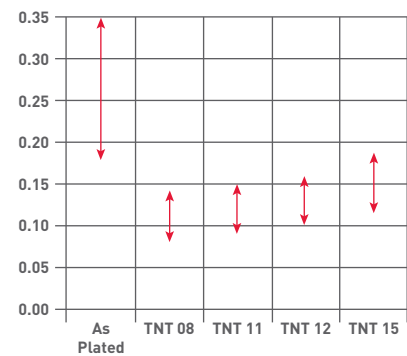


ZinKlad 1000 B performance data

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 Enthone 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 NiSpeed	Alkaline, fast plating rates for rack and barrel applications
Trivalent Passivates	Protects the zinc deposit from white rust
TriPass ELV 5100*	Good black appearance with excellent corrosion resistance
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

* Recommended for use with sealer



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