ZinKlad™ 250 M

Hexavalent Chromium-Free Coatings



Protective Coating For Safety Critical Fasteners

ZinKlad 250 M was one of the first hexavalent chromium-free coatings to be adopted by global automotive manufacturers including Ford and GM. Introduced at the beginning of the new millennium, it continues today to deliver excellent corrosion resistance coupled with consistent performance.

ZinKlad 250 M can be applied to most fasteners requiring sacrificial protection. Its primary use is for coating high tensile fasteners, threaded or unthreaded. The benefit of using ZinKlad 250 M on these parts is that the zinc rich coating is free of hydrogen embrittlement according to ASTM B695 and DIN EN ISO 12683. On threaded fasteners a lubricant is often applied to give a consistent coefficient of friction of 0.15.

When it comes to providing protection for safety critical fasteners, **ZinKlad 250 M** delivers.



- Suitable for High Tensile Steels
- Excellent Corrosion Resistance
- Consistent Performance
- Coating Free of Thread and Head Fill
- Global Availability







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ZinKlad 250 M Performance Data

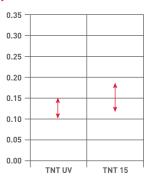
ZinKlad 250 M combines an homogenous metallic zinc deposit of 8 microns minimum thickness, with a high build iridescent passivate and an optional clear topcoat with integral lubricant.

The zinc deposits are applied from the **MacuGuard** mechanical zinc process and completed with **TriPass ELV**1500 LT trivalent passivate which imparts a silver-iridescent color, whilst extending corrosion resistance against the formation of white rust. An optional application of **Torque 'N' Tension 15** provides both increased corrosion resistance and modifies surface properties to ensure uniform torque and clamping characteristics.

ZinKlad 250 M consistently meets minimum performance demands for corrosion and torque modification.

Corrosion Performance (ASTM B-117) First White Corrosion First Red Corrosion ZinKlad 250 M 96 h 240 h

Typical coefficient of friction for Torque 'N' Tension control fluids



Why Do Fastener Engineers Choose ZinKlad 250 M Coating?

Reliability

- Consistency process steps which are always the same
- Reproducibility means a predictable coating is produced
- Applicator program, aids coating reliability through a common audited standard

Security

• Used on higher-strength steels which are used to bear high loads

Value

- No need for the hydrogen de-embrittlement process
- Increases productivity due to high loading
- Coating uniformity and freedom from parts 'sticking'



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