

# ZinKlad

High Performance Coatings

## Coating Systems That Exceed The Most Demanding Automotive Specifications



**Trivalent Passivate Coatings:** High performance for zinc and zinc alloys

**Zinc Coatings:** Superior acid and alkaline processes

**Torque 'n' Tension Coatings:** Meets all automotive friction requirements



# ZinKlad

**ZinKlad** the premier global auditing program to support hexavalent chromium-free zinc based automotive coatings

**MacDermid ZinKlad** coatings have provided hexavalent free coatings for automotive applications for over 10 years now. In that time, the steady evolution of the ZinKlad program has enabled many global **OEM's** to specify higher standards than they had previously achieved.

Today ZinKlad represents not only the best method for achieving hexavalent chromium free performance coatings, but also:



## Approved Applicators:



Applying these products to a common audited standard ensures the same coating performance throughout the applicator base.

## High Performance:



Exceeding corrosion resistance of hexavalent chromate systems and exceptionally consistent torque and tension characteristics.

## Global Consistency:



Wherever ZinKlad coatings are applied, applicators know they are using the same high performance products.

Of course, compliance with legislation, such as **ELV & RoHS**, and predictable torque-tension performance continue to be essential requirements. ZinKlad continues to deliver on all of these needs.

## Corrosion Performance \*ASTM B-117

Coating	First White Corrosion (FWC)	First Red Corrosion (FRC)
ZinKlad 96	72	240
ZinKlad 250	120	384
ZinKlad 250 M	96	240
ZinKlad 500	200	500
ZinKlad 1000	240	1000
ZinKlad 1000 B	240	1000
ZinKlad MG/MGL	192	600

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**ZinKlad 96** is a hexavalent chromium-free coating system that will meet today's industry demands for high performance surface treatments. It combines a metallic zinc deposit of 8 microns minimum thickness with a **TriPass ELV** passivate. Depending on the automotive requirement, a topcoat may be specified.

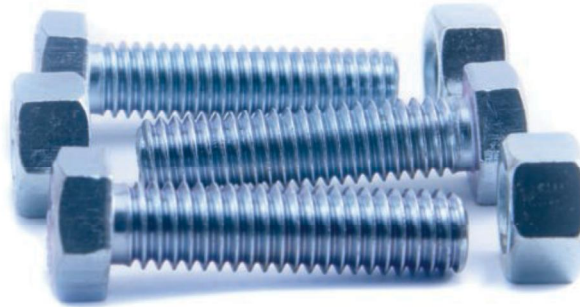
**ZinKlad 240** is a high performance hexavalent chromium-free coating system that exceeds the demands of GM 3044X. It is suitable for rack or bulk (barrel) plating. It combines a metallic zinc deposit of 8 microns minimum thickness, applied from our range of **Envirozin** and **Kenlevel** zinc electroplating processes, with a high build iridescent passivate and HydroKlad SI topcoat.

**ZinKlad 250** is a hexavalent chromium-free coating system that will meet today's industry demands for high performance surface treatments. It combines a metallic zinc deposit of 8 microns minimum thickness, applied from our range of **Envirozin** and **Kenlevel** zinc electroplating processes, with a high build iridescent passivate and clear topcoat. **ZinKlad 250** consistently meets minimum performance demands for corrosion and torque modification.

**ZinKlad 250 M** is a hexavalent chromium-free mechanically plated metallic zinc deposit with a high build iridescent passivate and clear topcoat. **ZinKlad 250 M** is specified when the coating needs to be free of hydrogen embrittlement, such as safety critical parts. ZinKlad 250 M consistently meets minimum performance demands for corrosion and torque modification.

**ZinKlad 500/500 B** is a hexavalent chromium-free coating system that will meet today's industry demands for high performance black and silver coatings. It combines a metallic zinc-iron deposit of 8 microns minimum thickness, with a high build iridescent or black passivate and clear topcoat. **ZinKlad 500** consistently meets minimum performance demands for corrosion and torque modification.

**ZinKlad 1000** is a hexavalent chromium-free coating system that will meet today's industry demands for the highest performance surface treatments. It combines a zinc-nickel deposit of 8 microns minimum thickness, with a high build iridescent passivate and clear topcoat.



**ZinKlad 1000 B** black hexavalent chromium-free coating systems meet today's industry demands for the highest performance black finish surface treatments.

**ZinKlad 1000 and 1000 B** finishes consistently meet minimum performance demands for corrosion and torque modification.

**ZinKlad MG / MGL** are unique, hexavalent chromium-free coating systems designed to provide outstanding corrosion performance and minimize galvanic corrosion at the light metal interface.

They combine a metallic zinc deposit of 12 to 30 microns thickness, with a high build iridescent passivate and a multi-layer clear topcoat. **ZinKlad MG / MGL** consistently meet minimum performance demands for corrosion and torque modification.

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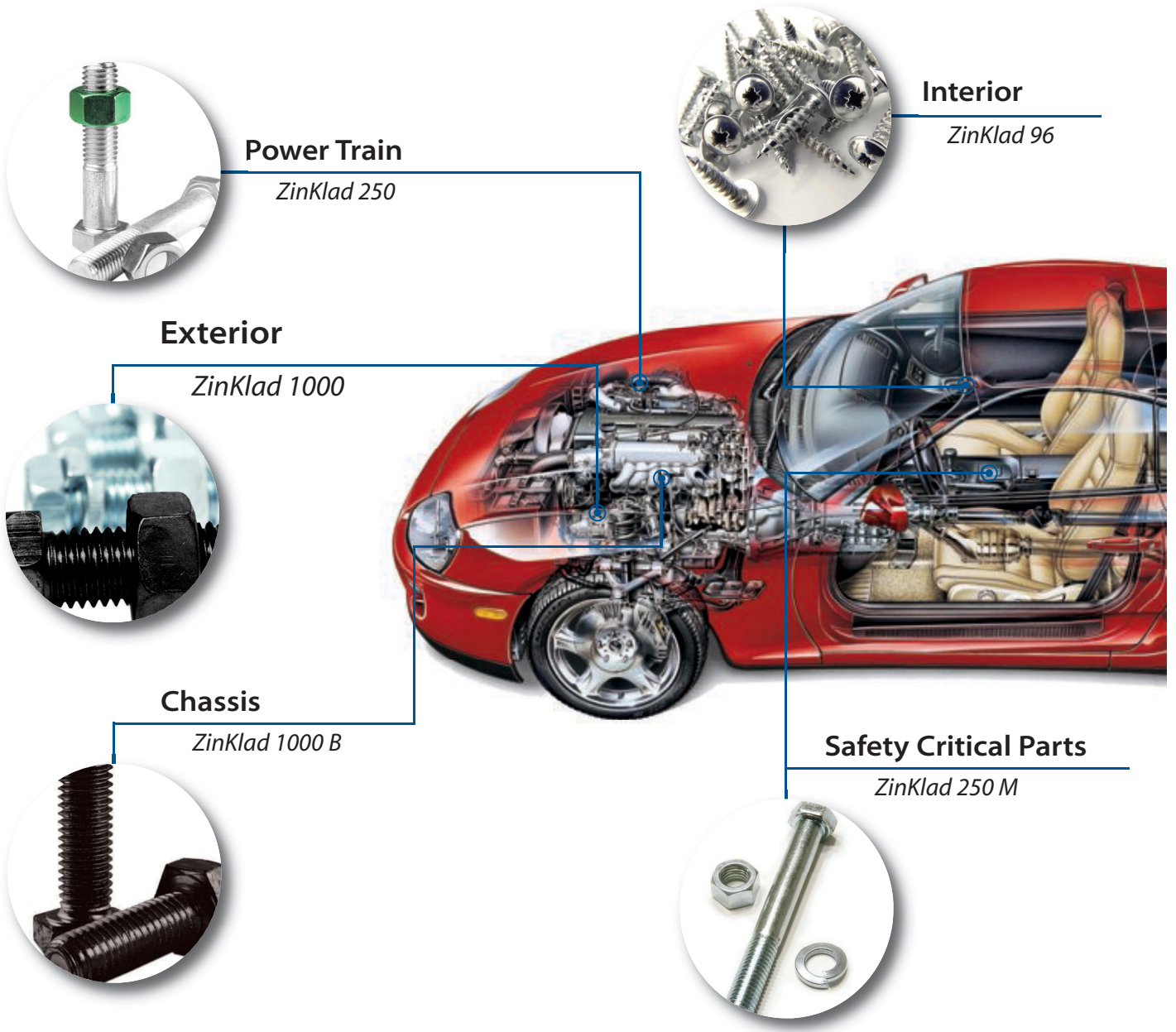
**Innovation Driven  
By Customer Need**

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# ZinKlad

*Advanced Technologies For Protection And Performance*



## Power Train

*ZinKlad 250*

## Interior

*ZinKlad 96*

## Exterior

*ZinKlad 1000*

## Chassis

*ZinKlad 1000 B*

## Safety Critical Parts

*ZinKlad 250 M*

It takes more than innovative, high performance products and superior technical service to help our customers compete and win in today's global marketplace. It takes a total commitment to understanding their needs and the ability to provide the right solutions—every time.

When success is your only goal trust, MacDermid.



For more information, please contact us at:

[www.macdermid.com/industrial](http://www.macdermid.com/industrial)