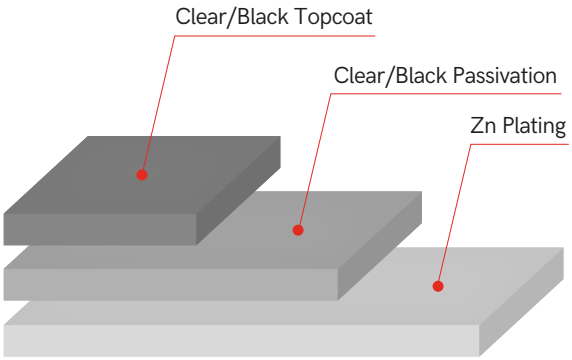
ECOPLATE™

Alkaline zinc-based galvanic coating, completely nickel free

ECOPLATE™ is an alkaline zinc-based galvanic coating, sealed with topcoat.
It's completely nickel free, but it keeps similar performances as a galvanic ZnNi coating.

Layer



Properties

- Friction stability
- Self loosening resistance according to VW01131 (up to 120°C)
- Ni free: anticipates the REACH restrictions
- High corrosion resistance and reduction of galvanic corrosion
- Available in clear or black color
- Cr(VI) free passivations

Corrosion resistance

- WR > 240h; RR > 720h (also after 1h at 120 °C) according to ISO9227
- Fulfils PV1201 test
- Corrosion performance obtained by developed technology of resin + metal + crosslinking agent dispersion into topcoat film, to promote adhesion and cohesion.

ISO 9227*				
Version	As is Condition		After 1h x 120°C	
	WR	RR	WR	RR
Clear	>240h	>720h	>240h	>720h
Black	>240h	>720h	>240h	>720h

* Industrial test results

Cost effectiveness

Ecoplate has much better performances than any Zn coating on the market and is on par with some ZnNi coatings: it offers great performances at a competitive price with the advantage of being Ni-free.

Example of applications

- dip-spin application
- ideal for all kind of geometry including socket, fine pitch…

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Friction performance

- µtot=0.09 – 0.15 according to ISO 16047
- fulfils VW01131 both against aluminium and KTL
- The great resistance against wear and abrasion effect of Ecoplate topcoats is able to ensure a very stable and really reliable friction performance on various counterpart surfaces like steel (ref. ISO 16047), E coated plates (KTL) & aluminum (VDA235 203) at high speed
- Performance obtained by uniform dispersion of lubricant into topcoat film.

Mean Values* - Total coefficient of friction - µtot [-]								
Version	ISO 16047	200 rpm & 20 rpm (High speed)						
	Steel plate	KTL (E-coat) plate					Alu plate	
	1° Tight.	1° Tight.	2° Tight.	3° Tight.	4° Tight.	5° Tight.	1° Tight.	2° Tight.
Clear	0,116	0,101	0,098	0,096	0,095	0,095	0,127	0,115
Black	0,111	0,106	0,105	0,102	0,101	0,100	0,126	0,120

* Mean values of industrial test results

Officially integrated in TL 194**

***Technical standard of "COATING FOR FASTENERS IN CONTACT WITH MAGNESIUM"*

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