

Swiss Quality



7-2016

Mungo Practice



GreenTec®

The new coating, successfully tested and examined in the salt spray testing process.

GreenTec® - Corrosion resistant zinc alloy layer

GreenTec®

Description

GreenTec® is a special alloy layer system on a zinc and nickel foundation which provides hard, wear and tear resistant layers with a very high corrosion resistance, even with the lowest layer thicknesses. The layer system GreenTec® with its excellent metal distribution and constant alloy layer composition can be used for various purposes, given the right after care.

Applications

Due to its excellent corrosion resistance, GreenTec® is, even used with the lowest layer thicknesses, especially for high quality purposes in the automobile hydraulic and electronic industry.

The layer system provides further advantages through the hydrogen de-embrittlement of highly solid components without a loss of the properties.

Typical applications are coatings of connecting elements in the mid-cost area with corrosion and wear and tear requirements as well as high quality applications and applications in the high-tech industry.

Economical aspects

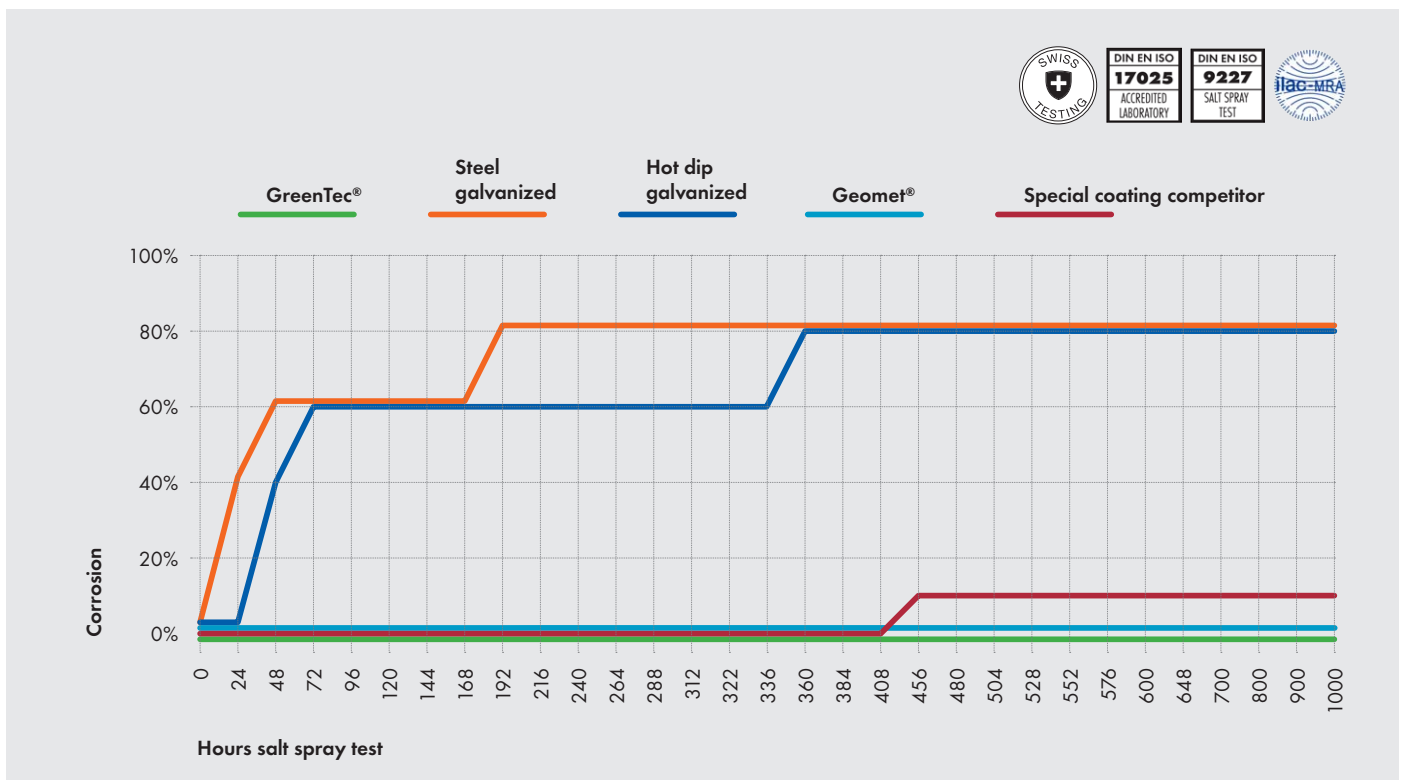
An important economic factor for the use of GreenTec® is the excellent extension of the durability in comparison with conventional zinc coatings which have a much lower layer thickness.

Properties

Appearance.....	Stainless steel appearance
Layer properties.....	No contact corrosion with aluminum Good adhesion base for paint and vulcanizing coating
Melting point.....	> 700 °C
Corrosion resistance until.....	RR 800 - 1000 h NSS according to DIN EN ISO 9227
Hardness.....	400 - 500 HV
Inner tension.....	D 50 - 90 N/mm ²
Elongation at break.....	< 1,0 %
Environment.....	



Corrosion behavior in a salt spray test



Highly alkaline environment in concrete



There is a highly alkaline environment in concrete with a PH value of >13. Due to this, a clip with conventional galvanizing cannot build corrosion.

Testing process by independent testing institute

A salt spray test is standardized testing for the evaluation of the corrosion resistance of organic coatings, metal coatings or chemical coatings, respectively physical coatings. Several national or international standards (for instance DIN EN ISO 9227) regulate the implementation of this testing. The test parts will be positioned under standardized conditions in a test chamber, in which a sprayed salt solution (usually a sodium chloride solution), which impacts the test parts for a duration of 1000h.

Korrosionstest - Auswertung					
Salzsprühnebel nach DIN EN ISO 9227 NSS (DIN 9227 SS)					
Bestell-Nr.	Material	Standort	Test-Nr.	Test-Datum	Test-Zentrum
A 16 000	A4 2019	04 04 2018	04 08 2018	04 08 2018	04 08 2018
Hersteller	Material	Profil	Profil	Profil	Profil
Mungo Metallbauelemente AG	A4 2019	04 04 2018	04 08 2018	04 08 2018	04 08 2018
Bestell-Nr.	Material	Profil	Profil	Profil	Profil
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Salt spray test

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Salzsprühnebel nach DIN EN ISO 9227 NSS (DIN 9227 SS)					
Bestell-Nr.	Material	Standort	Test-Nr.	Test-Datum	Test-Zentrum
A 16 019	A4 2019	04 04 2018	04 08 2018	04 08 2018	04 08 2018
Hersteller	Material	Profil	Profil	Profil	Profil
Mungo Metallbauelemente AG	A4 2019	04 04 2018	04 08 2018	04 08 2018	04 08 2018
Bestell-Nr.	Material	Profil	Profil	Profil	Profil
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