

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

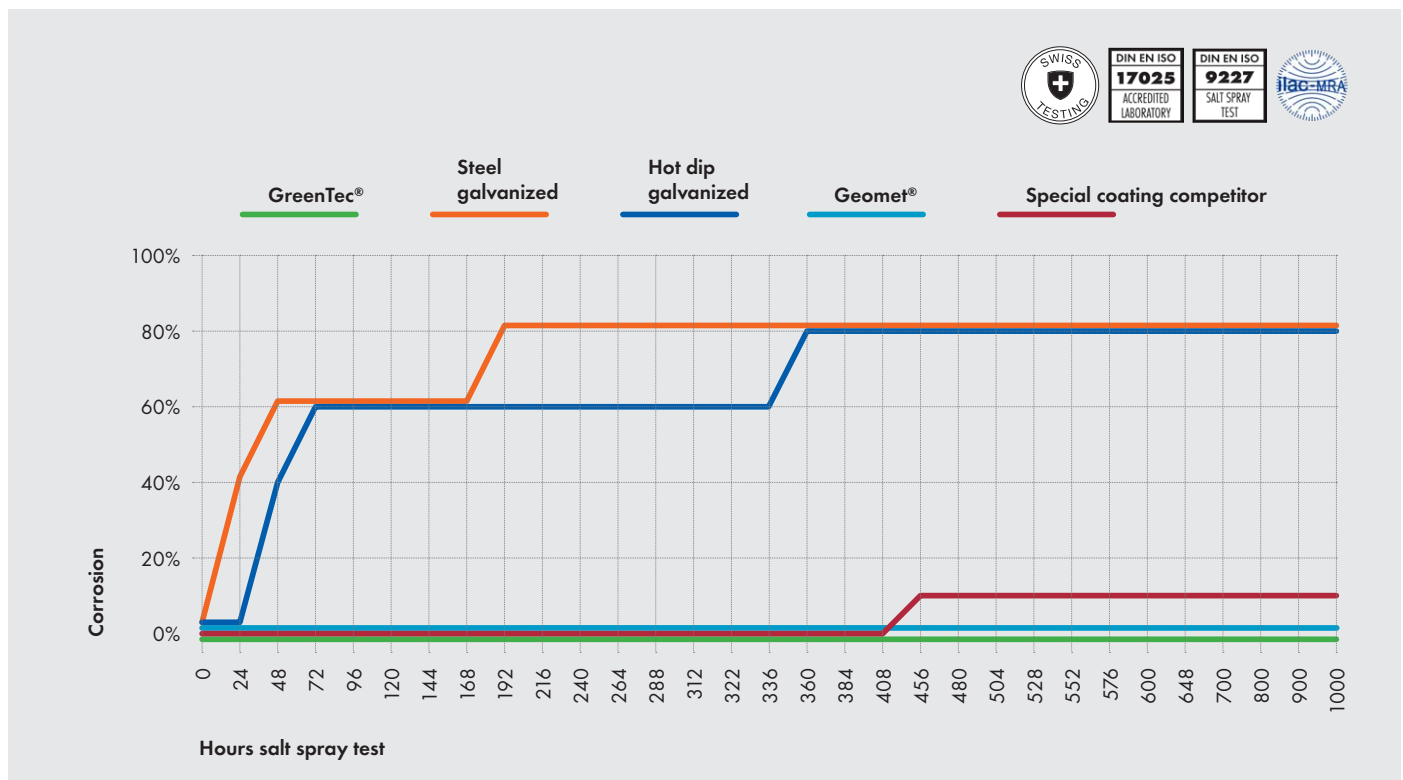
An important economic factor for the use of GreenTec® is the excellent extension of the durability in comparison with conventional zinc coatings which have a much lower layer thickness.

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.



Salt spray test



Mungo
Befestigungstechnik AG
Bornfeldstrasse 2
CH-4603 Olten
Phone +41 62 206 75 75
Fax +41 62 206 75 85
mungo@mungo.ch

www.mungo.swiss

GERMANY



Mungo Befestigungstechnik GmbH & Co. KG
Airport-Stadt Mitte
Hanna-Kunath-Strasse 19
28199 Bremen
Phone +49 421 69 69 33 00
Fax +49 421 69 69 33 01
export@mungo.ch

www.mungo.swiss

AUSTRIA



Mungo Befestigungstechnik GmbH & Co. KG
Airport-Stadt Mitte
Hanna-Kunath-Strasse 19
28199 Bremen
Phone 0800 206 068
Fax 0800 206 069
austria@mungo.ch

www.mungo.swiss

MEA



Mungo Fastening Technology LLC
PO Box 66998, Prime Business Center
Tower A-503, Jumeirah Village Circle
Dubai, United Arab Emirates
Phone +971 4 452 0071
Fax +971 4 452 0271
info@mungo.ae

www.mungo.ae

USA/CANADA



Mungo USA, LLC
1025 Rose Creek Drive
Suite 620-304
Woodstock, GA 30189
United States
Phone +1 (404) 384-4992
sales@mungousa.com

www.mungousa.com

ITALY



Mungo S.r.l.
Via Germania 23 z.i.
35127 Padova
Phone +39 049 7623111
Fax +39 049 8705605
info@mungo.it

www.mungo.it

CHINA



Mungo (Changsha) Fasteners Co., Ltd.
13048, Zhongtian Plaza
766, Wuyi Avenue
410005 Changsha
Phone +86 731 82566332
Fax +86 731 82566842
qing.han@mungo.ch

www.mungo.cn