DELTA®-SEAL GZ SCHWARZ

Article number: 08400020

DELTA®-SEAL GZ SCHWARZ is a topcoat for a zinc flake basecoat or for other metallic substrates. In a system e.g. made of basecoat + topcoat, it is responsible for multifunctional characteristics such as a defined coefficient of friction window, resistance to media, colouring etc. Additionally, it can enhance the corrosion protection properties of the basecoat.The DELTA®-SEAL GZ SCHWARZ is applied via a non-electrolytic application technique directly onto the substrate (part). The zinc flake technique is described in the standards DIN EN ISO 10683 and DIN EN ISO 13858. The application technology can vary according to the dimension and weight of the part; e.g. small parts are usually coated as dip-spin, bigger parts are usually spray coated. All Dörken MKS products have always been free of harmful heavy metals such as chromium VI. As there is no hydrogen involved during the application process, there is no danger of application-related hydrogen-induced stress corrosion cracking.

CATEGORY

DS-Topcoat

Dörken Coatings GmbH & Co. KG, Wetterstraße 58, D-58313 Herdecke/Ruhr
Phone: +49 2330 63 243, Email: coatings@doerken.de, Web: www.doerken.com

REQUIREMENTS

Corrosion resistance DIN EN ISO 9227 / ASTM B117

- delays galvanic corrosion
- enhances the corrosion protection of the basecoat

Special features

- organic
- solvent-based
- integrated lubricant
- gaugeability
- compatible for patching
- over-paintable

Weathering resistance

- fulfils the requirements of natural outdoor exposure according to DIN EN ISO 12944-2

Defined coefficient of friction window

- µtot = 0,09-0,14 (VDA 235-101 & DBL 9440)
- µtot = 0,12-0,18 (Ford S307)
- prevents stick-slip effects as according to VDA 235-203

Media resistance

- fulfils chemical resistance against laboratory chemicals according to DIN EN ISO 2812
- fulfils chemical resistance against operating fluids according to DIN EN ISO 2812
- fulfils fertilizer resistance as per customer specification AMAZONE

Adhesion

- fulfils the requirements of the bend test (conical mendril) acc to DIN EN ISO 6860.
- fulfils the requirements of cupping test acc to DIN EN ISO 1520.

Resistance against

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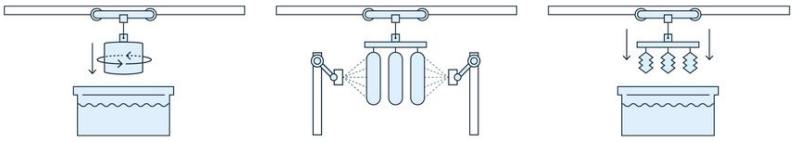
- Corrosion resistance
- Media resistance
- Weathering resistance
- Resistance against mechanical influence
- Defined coefficient of friction window

Surface / Substrate

- zinc flake basecoat
- stainless steel
- zinc die cast
- aluminum die cast
- passivated zinc/zinc alloys
- Phosphat
- typical dry film thickness of 4-20 µm
- Even layer construction possible.
- The technical feasibility depends on pretreatment and individual characteristics of each material.

Application technology



dip-spin spray dip-drain

Legal conditions

- meets the EU End-of-Life Vehicle Directive 2000/53/EC
- meets the RoHS 2 guidelines (also known as EU Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment 2002/95/EC)
- meets the REACh requirements

Contact Person

- Thorsten Speck

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SELECTION OF SUITABLE PARTS

Advised parts

Washers

Big parts

Panels

Metrical threaded bolts >M16

Metrical threaded bolts M2-M16

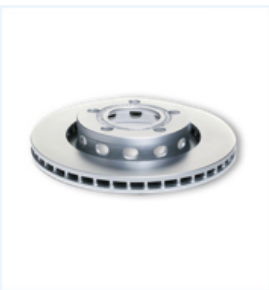
Non metrical threaded parts

Clips

Stamped parts

Nuts

Pipes and tubes



Brake parts

Bearings

Springs

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Suitable parts

Rivets

SPECIFICATIONS

ASTM - F3393
Amazone - AWN 004002
Avdel - Threaded Inserts
Avdel - Breakstem Systems
Bossard - EV Engineer appendix Rev. 08
Brose - BN590295-109
Chongqing Changan - GY-TY-19-2017
Continental Teves - ATE N 106 36.31
Daimler - DBL 8451
Delphi - DX551800
FCA (Fiat Chrysler Automotive) - PS-7626
Ford Motor Company - WSS-M21P42
General Motors - GMW3359
IBM - 41-091
IWIS - Anforderungen Zinklamellenbeschichtung
JCB - STD00017
Jaguar Land Rover - STJLR.50.5045
John Deere - LaN 930-11.4
Kenersys - KSY_SPC_bolt
Kion (Linde) - WN 10 615
Knorr-Bremse - N12005, P01
PSA - Opel - GME00255
SAF-HOLLAND - Technical Specification
ASTM - F3125
ArvinMeritor - AM P104
Avdel - Fastriv® Self-piercing Rivets
Bosch - N67F 827
Brembo - BDS-11.22
Case New Holland - MAT0320
Continental Teves - ATE N 106 61.00
Daimler - DBL 8440
Daimler - DBL 9440
FCA (Fiat Chrysler Automotive) - 9.57513
Ford Motor Company - WSD-M21P11 [S307]
General Electric - Energy - P14A-AL-0218
Hendrickson Truck Suspension - HTES-1283
ISO - ISO/EN 10683
Iveco - 18-1101
Jaguar Land Rover - STJLR.60.5020.X100
John Deere - JDM F13
Kamax - KN-5506
Kiekert - WI-D-27-10-07-00
Knorr-Bremse - N12005, P22
Mahindra - G00 0056
Porsche - VW96215 (PTL 7529)
Schneider Electric - ABD00050

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