

DELTA®-SEAL GZ SCHWARZ

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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



REQUIREMENTS

Corrosion resistance

- 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

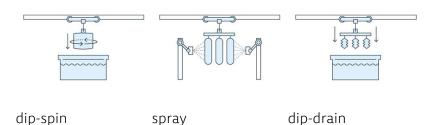


- Corrosion resistance
- Media resistance
- Weathering resistance
- Resistance against mechanical influence
- Defined coefficient of friction window

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



Legal conditions

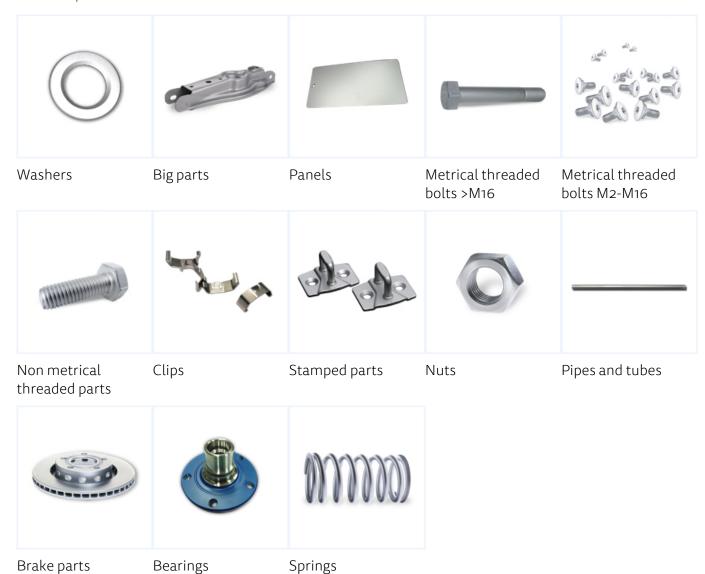
- meets the EU End-of-Life Vehicle Directive 2000/53/EC
- meets the RoHS 2 guidelines (also known as EU Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment 2002/95/EC)
- meets the REACh requirements

Contact Person

• Thorsten Speck

SELECTION OF SUITABLE PARTS

Advised parts





Suitable parts



Rivets

SPECIFICATIONS

ASTM - F3393

Amazone - AWN 004002 ArvinMeritor - AM P104

Avdel - Threaded Inserts Avdel - Fastriv® Self-piercing Rivets

ASTM - F3125

lveco - 18-1101

Bosch - N67F 827 Avdel - Breakstem Systems Brembo - BDS-11.22 Bossard - EV Engineer appendix Rev. 08

Brose - BN590295-109 Case New Holland - MAT0320

Continental Teves - ATE N 106 61.00 Chongqing Changan - GY-TY-19-2017

Continental Teves - ATE N 106 36.31 Daimler - DBL 8440

Daimler - DBL 8451 Daimler - DBL 9440

Delphi - DX551800 FCA (Fiat Chrysler Automotive) - 9.57513 FCA (Fiat Chrysler Automotive) - PS-7626 Ford Motor Company - WSD-M21P11 [S307]

Ford Motor Company - WSS-M21P42 General Electric - Energy - P14A-AL-0218

General Motors - GMW3359 Hendrickson Truck Suspension - HTES-1283

IBM - 41-091 ISO - ISO/EN 10683

IWIS - Anforderungen Zinklamellenbeschichtung

JCB - STD00017 Jaguar Land Rover - STJLR.60.5020.X100

Jaguar Land Rover - STJLR.50.5045 John Deere - JDM F13 John Deere - LaN 930-11.4 Kamax - KN-5506

Kenersys - KSY SPC bolt Kiekert - WI-D-27-10-07-00 Kion (Linde) - WN 10 615 Knorr-Bremse - N12005, P22

Knorr-Bremse - N12005, Po1 Mahindra - Goo oo 56 PSA - Opel - GME00255 Porsche - VW96215 (PTL 7529)

SAF-HOLLAND - Technical Specification Schneider Electric - ABD00050