

## DELTA®-SEAL GZ SILBER

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DELTA®-SEAL GZ SILBER 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 SILBER 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

- $\mu_{\text{tot}} = 0,09-0,14$  (VDA 235-101 & DBL 9440)
- $\mu_{\text{tot}} = 0,12-0,18$  (Ford S307)
- prevents stick-slip effects as according to VDA 235-203

### Media resistance

- fulfils chemical resistance against operating fluids according to DIN EN ISO 2812

### 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

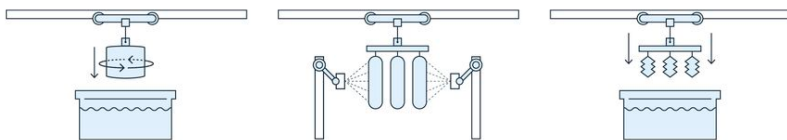
- Corrosion resistance
- Media resistance

- 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



dip-spin

spray

dip-drain

## Legal conditions











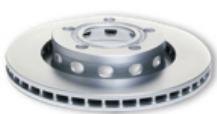


- meets the EU End-of-Life Vehicle Directive 2000/53/EC
- meets the RoHS 2 guidelines (also known as EU Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment 2002/95/EC)
- meets the REACH requirements

## Contact Person

- Thorsten Speck

## 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		

Suitable parts



Rivets

## SPECIFICATIONS

ASTM - F3393	ASTM - F3125
ArvinMeritor - AM P104	Autoliv - Teilefreigabe / parts specification
Avdel - Fastriv® Self-piercing Rivets	Bosch - N67F 827
Bossard - EV Engineer appendix Rev. 08	Brembo - BDS-11.22
Brose - Teilefreigabe / parts specification	Brose - BN590295-109
Case New Holland - MAT0320	Caterpillar - 1E1675
Chassis Brakes International - o 204 Y81 074-AD	Continental Teves - ATE N 106 36.31
Continental Teves - ATE N 106 61.00	DIBt - General approval for building law
Daimler - DBL 8440	Delphi - DX551800
FAW China - 2015055	FCA (Fiat Chrysler Automotive) - 9.57513
FCA (Fiat Chrysler Automotive) - PS-7626	Ford Motor Company - WSS-M21P42
General Motors - GMW3359	Hendrickson Truck Suspension - HTES-1283
ISO - ISO/EN 10683	IWIS - Anforderungen Zinklamellenbeschichtung
International Truck - TMS-4518	JCB - STD00017
Jaguar Land Rover - STJLR.50.5045	John Deere - JDM F13
John Deere - LaN 930-11.4	Kamax - KN-5506
Kenersys - KSY_SPC_bolt	Kiekert - Teilfreigabe / Part specification
Kiekert - WI-D-27-10-07-00	Knorr-Bremse - N12005, P01
Knorr-Bremse - N12005, P22	Mahindra - G00 0056
Navistar - TMS-4518	Nissan - M 4601
Nordex - Teilfreigabe / Part specification	PSA - Opel - Parts specification
PSA - Opel - GME00255	Russian Railway / Russische Bahn - 10 years function (official certificate of Russian Railway Institute)
Scania - STD 4165	Schneider Electric - ABD00050