



## DELTA®-SEAL GZ SILBER

### Product description

DELTA®-SEAL GZ SILBER is a topcoat for a zinc flake basecoat or other metallic substrates. In the system is the topcoat responsible for multifunctional properties such as a defined coefficient of friction, media resistance, coloration, etc. It can also increase the corrosion protection of the basecoat.

The coating process is described in the standards DIN EN ISO 10683 and DIN EN 13858. Depending on the dimension, geometry and weight of the component as well as other influences, the application technology may vary.

Like all Dörken products, DELTA®-SEAL GZ SILBER is free of harmful heavy metals such as chromium(VI). Since no hydrogen is offered during the application process, there is no risk of application-related hydrogen-induced stress corrosion cracking.

You can always find the latest specifications from individual OEMs and suppliers on our homepage.

### Colour designation in the dried state

Silver

### Product category

DS-Topcoat

### Item number

08400024 (25 kg)

**Dörken Coatings GmbH & Co. KG**

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## DELTA®-SEAL GZ SILBER

### Areas of use



Metrical threaded bolts  
M2-M16



Metrical threaded bolts  
>M16



Non metrical threaded  
parts



Nuts



Washers



Springs



Clips



Brake parts



Stamped parts



Big parts



Bearings



Pipes and tubes



Panels

### Surface / Substrate

- zinc flake basecoat
- stainless steel
- zinc die cast
- aluminum die cast
- passivated zinc/zinc alloys
- typical dry film thickness of 4-20 µm
- even layer construction possible.
- Phosphat

The technical feasibility depends on pretreatment and individual characteristics of each material.

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### Performance

#### Corrosion resistance

- Enhances the corrosion protection of the basecoat
- Delays galvanic corrosion

#### Media resistance

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

#### Weathering resistance

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

#### Resistance against mechanical influence

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

#### Defined coefficient of friction window

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

### Special characteristics

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

### Application

The appropriate application method usually depends on the geometry of the component.  
Recommended:

- dip-drain
- spray
- dip-spin

### 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

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### List of specifications

- Hendrickson Truck Suspension - HTES-1283
- Alstom Transport - DTRF 150611
- ASTM - F 1136
- Autoliv - Parts specification
- Avdel - Fastriv® Self-piercing Rivets
- Bosch - N67F 827
- Bossard - EV Engineer appendix Rev. 08
- Brembo - BDS-11.22
- Brose - BN590295-109
- Case New Holland - MAT0320
- Brose - Parts specification
- Caterpillar - 1E1675
- Chassis Brake International - 0204Y81074-AD
- Continental Teves - ATE N 106 36.31
- Continental Teves - ATE N 106 61.00
- Daimler - DBL 8440
- Delphi - DX551800
- DIBt - General approval for building law
- FAW China - 2015055
- Ford Motor Company - WSS-M21P42
- General Motors - GMW3359
- International Truck - TMS-4518
- Inteva - MX551800
- ISO - EN 10683
- IWIS - Requirements zinc flake coat
- Jaguar Land Rover - STJLR.50.5045
- JCB - STD00017
- John Deere - JDM F13

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- John Deere - LaN 930-11.4
- Kamax - KN-5506
- Kenersys - KSY\_SPC\_bolt
- Kiekert - Parts specification
- Kiekert - WI-D-27-10-07-00
- Knorr-Bremse - N12005, P01
- Knorr-Bremse - N12005, P22
- Mahindra - G00 0056
- Navistar - TMS-4518
- Nordex - Parts specification
- PSA - Opel - GME00255
- PSA - Opel - Parts specification
- Russian Railway - 10 years function (official certificate of Russian Railway Institute)
- Scania - STD 4165
- Schneider Electric - ABD00050
- Schütz - Zinklamellenbeschichtung von Verbindungselementen
- TATA Motors Ltd - SS 8457S1
- Tesla - TM-0010F-M
- TRW - TS2-25-60
- VDA - VDA 235-104
- Volkswagen - TL 233
- Volvo Car Corporation - VCS 5752,539
- Volvo Car Corporation - VCS 5737,29
- Würth - WS-008
- Yale - 402032
- Case New Holland - MAT0320
- BMW - GS 90010

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