

## DELTA®-SEAL SCHWARZ

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DELTA®-SEAL 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 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
- gaugeability
- compatible for patching
- over-paintable
- gluability

### Weathering resistance

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

### 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.

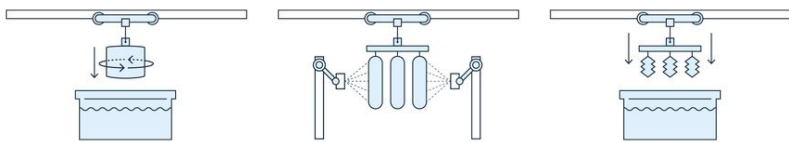
### Resistance against

- Corrosion resistance
- Media resistance
- Weathering resistance
- Resistance against mechanical influence

### 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

Non metrical  
threaded parts

Clips



Stamped parts

Pipes and tubes

Brake parts

Springs

### Suitable parts



Metrical threaded  
bolts >M16

Metrical threaded  
bolts M2-M16

Nuts

Rivets

## SPECIFICATIONS

AST - Gurtumlenker	ASTM - F3393
Acciona Windpower - CS0129	ArvinMeritor - AM P104
Avdel - Fastriv® Self-piercing Rivets	Avdel - Breakstem Systems
BMW - GS 90010	Bosch - F 01C 930 017
Bosch - N67F 827 (closed for new parts)	Brose - BN590295-109
Continental Teves - ATE N 106 61.00	Continental Teves - ATE N 106 36.31
Daimler - DBL 8440	Daimler - DBL 9441
Daimler - DBL 8451	Enercon - MK06000-0
FCA (Fiat Chrysler Automotive) - PS-10633	FCA (Fiat Chrysler Automotive) - PS-7626
Ford Motor Company - WSD-M21P10 [S303]	General Motors - GMW14100
Hendrickson Truck Suspension - HTES-1283	ISO - ISO/EN 10683
ISUZU - ISC-B22-003F	JCB - STD00017
Jaguar Land Rover - STJLR.60.5020.X100	John Deere - LaN 930-11.4
John Deere - JDM F13	Kamax - KN-5506
Kenersys - KSY_SPC_bolt	Kiekert - WI-D-27-10-07-00
Kion (Linde) - WN 10 615	Knorr-Bremse - N12005, P01
Kässbohrer - KGN 202.20	MAN - 183-3
MAN - 183-2	Mahindra - G00 0056
Mando - MES-M-06-006	Nissan - M 4601
PSA - Opel - GME00255	Palfinger - 01.06.12
Porsche - VW96215 (PTL 7529)	Renault Trucks - 01-71-4002 / I
Schneider Electric - ABD00048	Siemens Infrastructure & Cities - A6Z00033015319
Siemens Mobility - Version D	Stihl - SWN 33011-01