

## DELTA-PROTEKT® VH 301 GZ

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DELTA-PROTEKT® VH 301 GZ is a topcoat for a zinc flake basecoat. In a system 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-PROTEKT® VH 301 GZ 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



VH-Topcoat

## REQUIREMENTS

### Corrosion resistance

- enhances the corrosion protection of the basecoat

### Special features

- inorganic
- water-based
- integrated lubricant
- gaugeability

### Defined coefficient of friction window

- $\mu_{\text{tot}} = 0,09-0,14$  (VDA 235-101 & DBL 9440)

### Media resistance

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

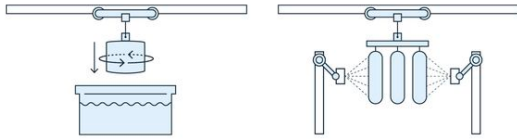
### Resistance against

- Corrosion resistance
- Media resistance
- Defined coefficient of friction window

### Surface / Substrate

- zinc flake basecoat
- extreme thin layers of 1-3  $\mu\text{m}$  possible
- Even layer construction possible.
- The technical feasibility depends on pretreatment and individual characteristics of each material.
- Technical characteristics such as coefficient of friction, corrosion protection, adhesion etc. are to be tested individually after each application when applied on electroplated surfaces. Dörken MKS does not guarantee the quality of the system when applied on external base coatings. Any Duplex-system is on top to be approved by Dörken MKS.

## Application technology



dip-spin

spray

## 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

- Emre Kocak

## SELECTION OF SUITABLE PARTS

### Advised parts



Washers

Hose clamps

Big parts

Panels

Metrical threaded  
bolts >M16



Metrical threaded  
bolts M2-M16

Non metrical  
threaded parts

Stamped parts

Nuts

Brake parts

### Suitable parts



Clips

Springs

## SPECIFICATIONS

ASTM - F3125	ASTM - F3393
ArvinMeritor - P105	ArvinMeritor - AM P104
BMW - GS 90010	Bombardier - RON 444
Bosch - N67F 827	Brembo - BDS-11.22
Brose - BN590295-109	Case New Holland - MAT0320
Chassis Brakes International - o 204 Y81 074-AD	Continental Teves - ATE N 106 61.00
Daimler - DBL 9440	Daimler - DBL 8440
Daimler - DBL 9441	Deutsche Bahn - Mobility Networks Logistics - Spezifikation
Deutz - LVo1610144	FAW China - 2015055
FCA (Fiat Chrysler Automotive) - 9.57513	Hendrickson Truck Suspension - HTES-1283
ISO - ISO/EN 10683	Iveco - 18-1101
Kamax - KN-5506	Kenersys - KSY_SPC_bolt
Kion (Linde) - WN 10 615	Knorr-Bremse - N12005, P22
Kässbohrer - KGN 202.20	Liebherr - LN 10021432 (Version 9)
Meritor - 913	Meritor - P-105
Messier-Bugatti - IFC 40-863-02	Porsche - VW96215 (PTL 7529)
ROTAX - BRP-Bombardier - RON 444	SAF-HOLLAND - Technical Specification
SUZUKI ENGINEERING STANDARD - SES - SES D 2204a	Scania - STD 4165
Siemens Mobility - A6Z00040590559	Siemens Mobility - Version D
Stihl - SWN 33011-01	VDA - VDA 235-104
Volkswagen - TL 134	Volkswagen / Audi - Teilefreigabe / parts specification
Würth - WS-008	Würth - WIS-LV-003