

DELTA-PROTEKT® VH 321 GZ

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DELTA-PROTEKT® VH 321 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 321 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

- hybrid system
- 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

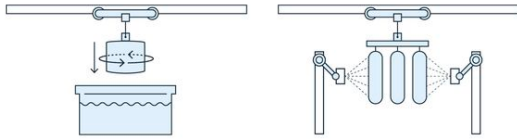
Resistance against

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

Surface / Substrate

- zinc flake basecoat
- extreme thin layers of 1-3 μm 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

Big parts

Panels

Metrical threaded
bolts >M16

Metrical threaded
bolts M2-M16



Non metrical
threaded parts

Stamped parts

Nuts

Brake parts

Bearings

Suitable parts



Hose clamps

Clips

Pipes and tubes

Springs

SPECIFICATIONS

ASTM - F3393

ISO - ISO/EN 10683

MAN - 183-3

Scania - STD 4165

General Motors - GMW14671

John Deere - JDM F13

MAN - Scania - CVS 16-1

Volkswagen - TL 180