

DELTA-PROTEKT® KL 120

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DELTA-PROTEKT® KL 120 is a base coat made of zinc flake technology. The sacrificial characteristics of the zinc lead to the cathodic protection properties of this basecoat. The DELTA-PROTEKT® KL 120 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. An optional top coat can enhance the corrosion protection properties as well as create some multifunctional characteristics such as a defined window of coefficient of friction, resistances to media, colouring etc. 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



Basecoat

REQUIREMENTS

Corrosion resistance

- reaches a cathodic corrosion protection as requested per DIN EN ISO 10683
- fulfils salt spray test according to DIN EN ISO 9227 as requested in DIN EN 13858
- fulfils salt spray test according to DIN EN ISO 9227 as requested in DIN EN ISO 10683
- fulfils salt spray test according to DIN EN ISO 9227 as requested in DIN EN ISO 12944-6
- fulfils constant humidity test according to DIN EN ISO 6270-2 (CH)
- fulfils cyclical corrosion test according to VW PV 1200
- fulfils accelerated corrosion test (ACT Test) according to Volvo STD 423-0014
- fulfils accelerated corrosion test II (ACT-II Test) according to Volvo VCS 1027,1449
- delays galvanic corrosion

Special features

- inorganic
- solvent-based

Media resistance

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

Temperature resistance

- Maintains corrosion protection after medium heat exposure (up to 400°C) for a long duration.

Adhesion

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

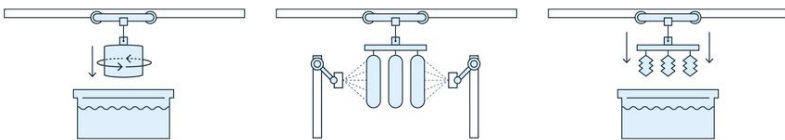
Resistance against

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

Surface / Substrate

- steel
- high-strength steel
- stainless steel
- sintered metal
- zinc die cast
- aluminum die cast
- passivated zinc/zinc alloys
- 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

- Florian Feldmann

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

Clips

Stamped parts

Nuts



Pipes and tubes

Brake parts

Bearings

Springs

SPECIFICATIONS

AGCO - Part approval

ASTM - F3393

Autoliv - Teilefreigabe / parts specification

Brose - BN590295-109

DIBt - General approval for building law

Daimler - DBL 8440

Daimler - DBL 9440

Ford Motor Company - WSS-M21P45 [S445]

General Electric - EooC12200

General Motors - GMW14671

Hyundai-Kia - MS 619-08

IWIS - Anforderungen Zinklamellenbeschichtung

Knorr-Bremse - N12005, P22

MAN - 183-3

PSA - S84 4107

Peugeot-Citroen - PSA - B153320

Renault - 39 - 02 - 837 / --B

Scania - STD4419

Siemens Mobility - A6Z00040590559

Volkswagen - TL 180

Volkswagen - TL 245

Volvo Car Corporation - VCS 5737,29

ASTM - F3125

Alstom Transport - DTRF 150217 E

BMW - GS 90010

Chongqing Changan - GY-TY-19-2017

Daimler - DBL 8451

Daimler - DBL 9441

Deutsche Bahn - Mobility Networks Logistics - DBS 918 127

Ford Motor Company - WSS-M21P45 [S444]

General Motors - GMW14083

Hendrickson Truck Suspension - HTES-1283

ISO - ISO/EN 10683

John Deere - JDM F13

Knorr-Bremse - N12005, P13

MAN - Scania - CVS 16-1

Palfinger - 01.06.12

Rassini - ESPECIFICACION DE PINTURA ZINK FLAKE

SUZUKI ENGINEERING STANDARD - SES - SES D 2204a

Scania - STD 4165

Tesla - TM-0010F-M

Volkswagen - TL 233

Volkswagen - TL 134