



DELTA-PROTEKT® KL 100

Product description

DELTA-PROTEKT® KL 100 is a basecoat based on zinc flakes. Due to the sacrificial effect of the zinc it contains, the basecoat provides cathodic corrosion protection.

The zinc flake 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.

An optional topcoat can be used to increase corrosion protection and set further multifunctional properties, e.g. a specific coefficient of friction, media resistance, coloration, etc.

Like all Dörken products, DELTA-PROTEKT® KL 100 is 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.

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

Colour designation in the dried state

Silver

Areas of use



Metrical threaded bolts
M2-M16



Metrical threaded bolts
>M16



Non metrical threaded
parts



Nuts



Washers



Clips



Stamped parts

Dörken Coatings GmbH & Co. KG

Wetterstr. 58 • 58313 Herdecke

Tel.: +49 2330 63 243 • Fax.: +49 2330 63 100 243
coatings@doerken.de • www.doerkencoatings.de

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Surface / Substrate

- steel
- high-strength steel
- passivated zinc/zinc alloys
- typical dry film thickness of 6-12 µm
- even layer construction possible.

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

Performance

Corrosion resistance

- Fulfils accelerated corrosion test II (ACT-II Test) according to Volvo VCS 1027,1449
- 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)
- Reaches a cathodic corrosion protection as requested per DIN EN ISO 10683

Media resistance

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

Sustainability

- Free from per- and polyfluoroalkyl substances (PFAS)

Special characteristics

- inorganic
- solvent-based
- gaugeability

Application

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

Recommended:

- dip-drain
- spray
- dip-spin

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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

List of specifications

- Hendrickson Truck Suspension - HTES-1283
- Adwen - EQ630001
- AGCO - FWN 10256
- Alstom Transport - DTRF 150217 E
- Alstom Transport - DTRF 150611
- Amazone - AWN 004002
- ArvinMeritor - AM P104
- AST - Gurtumlenker
- ASTM - F 1136
- Autoliv - Parts specification
- BAIC - Q BATC S 608
- BMW - EG-512 (for body parts)
- BMW - GS 90010
- Bombardier - RON 444
- Bosch - N67F 827
- Bossard - EV Engineer appendix Rev. 08
- Brembo - BDS-11.22
- Brose - BN590295-109
- Case New Holland - MAT0320
- Caterpillar - 1E1675
- Chongqing Changan - GY-TY-19-2017
- CNIM - FLZN-NC-TL-480H
- Continental Teves - ATE N 106 61.00
- DAF - W+O **493
- Daimler - DBL 8440
- Daimler - DBL 9440
- Daimler - DBL 9441
- Delphi - DX551800

- Deutsche Bahn - Mobility Networks Logistics - Specification
- Deutz - LV01610144
- DIBt - General approval for building law
- FAW China - 2015055
- Fiulsider Spa - ST025
- Ford Motor Company - WSD-M21P11 [S307]
- Ford Motor Company - WSS-M21P42
- Ford Motor Company - WSS-M21P42 [S442]
- Ford Motor Company - WSS-M2P170
- Gamesa Eólica - EQ630001
- General Motors - GMW3359
- Hyundai-Kia - MS 619-08
- Hyundai Rotem - RS 60101-J
- International Truck - TMS-4518
- Inteva - MX551800
- ISO - EN 10683
- ISUZU - ISC-B22-003F
- Iveco - 18-1101
- Jaguar Land Rover - LRES. 21.ZS.05
- Jaguar Land Rover - STJLR.50.5045
- Jaguar Land Rover - STJLR.60.5020.X100
- JCB - STD00017
- Kässbohrer - KGN 202.20
- Kamax - KN-5506
- Kenersys - KSY_SPC_bolt
- Kiekert - Parts specification
- Kiekert - WI-D-27-10-07-00
- Kion (Linde) - WN 10 615
- Kion (Linde) - WN 10616 - Teil 2
- Knorr-Bremse - N12005, P13
- Knorr-Bremse - N12005, P22
- Krone - KWN 01 200
- LDV - LDVS.21.ZS.05
- Liebherr - LN 10021432 (Version 9)
- Mahindra - G00 0056

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- Mahindra - G00 0056
- Mando - MES-M-06-006
- Messier-Bugatti - IFC 40-863-02
- MG Motors - 21 ZS 05
- Moeller - KT 65.15.256
- Navistar - TMS-4518
- Porsche - VW96215 (PTL 7529)
- PSA - B15 3320
- PSA - Opel - GME00255
- PSA - Opel - Parts specification
- Renault - 01-71-002--R
- Renault - 39 - 02 - 837 --B
- Renault - 47 - 01 - 000 -- E
- Renault Nissan - RNES-B-00059 (Renault 017009 & Nissan M0658)
- Renault Trucks - 01-71-4002 - I
- ROTAX - BRP-Bombardier - RON 444
- Russian Railway - 10 years function (official certificate of Russian Railway Institute)
- SAF-HOLLAND - Technical Specification
- Scania - STD 4165
- Schneider Electric - ABD00048
- Schneider Electric - ABD00050
- Siemens Mobility - A6Z00040590559
- Siemens Mobility - Version D
- Stihl - SWN 33011-01
- Tesla - TM-0010F-M
- TRW - Parts specification
- TRW - TS2-25-60
- VDA - VDA 235-104
- Volkswagen - TL 233
- Volkswagen - TL 245
- Volkswagen - Audi - Parts specification
- Volvo - STD 5752,53
- Volvo Car Corporation - VCS 5737,19
- WABCO - Parts specification
- Würth - WIS-LV-003
- Yale - 402032
- Chassis Brake International - 0204Y81074-AD
- Daimler - DBL 9440
- MAN - 183-3
- Brose - BN590295-109
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- Daimler - DBL 9440

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