

## 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.

### Resistance against

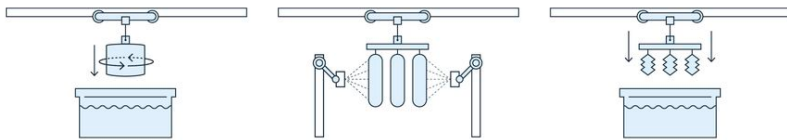
- Corrosion resistance
- Media resistance
- Temperature

### 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 - F 1136
Autoliv - Teilefreigabe / parts specification	Brose - BN590295-109
Chongqing Changan - GY-TY-19-2017	DIBt - General approval for building law
Daimler - DBL 8440	Daimler - DBL 9441
Daimler - DBL 8451	Daimler - DBL 9440
Deutsche Bahn - Mobility Networks Logistics - DBS 918 127	General Electric - EooC12200
General Motors - GMW14083	General Motors - GMW14671
Hyundai-Kia - MS 619-08	ISO - ISO/EN 10683
IWIS - Anforderungen Zinklamellenbeschichtung	Knorr-Bremse - N12005, P13
MAN - 183-3	PSA - S84 4107
Palfinger - 01.06.12	Rassini - ESPECIFICACION DE PINTURA ZINK FLAKE
Renault - 39 - 02 - 837 / --B	Scania - STD4419
Scania - STD 4165	Siemens Mobility - A6Z00040590559
Volkswagen - TL 134	Volkswagen - TL 245
Volkswagen - TL 180	Volkswagen - TL 233
Volvo Car Corporation - VCS 5737,29	