

DELTA-HEAT® 300

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DELTA-HEAT® 300 is a topcoat for a zinc flake basecoat or a metallic substrate. In the first case it primarily enhances the temperature resistance of the basecoat; in the second case it reduces the formation of scale during annealing processes. The DELTA-HEAT® 300 is applied via a non-electrolytic application technique directly onto the basecoat or 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

high-temperature

REQUIREMENTS

Corrosion resistance

- enhances the corrosion protection of the basecoat

Special features

- inorganic
- water-based
- gaugeability
- over-paintable

Temperature resistance

- Maintains corrosion protection of a basecoat after high heat exposure (up to 600°C) for a short duration.
- Maintains corrosion protection of a basecoat after medium heat exposure (up to 400°C) for a long duration.

Adhesion

- fulfils the requirements of the multi-impact testing (determination of stone-chip resistance) acc. to DIN EN ISO 20567-1.

Resistance against

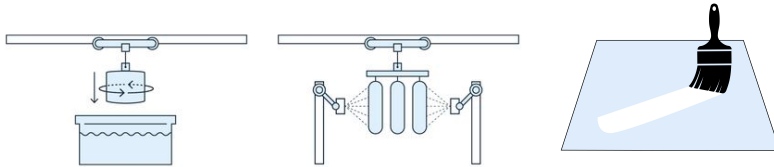
- Corrosion resistance
- Temperature
- Resistance against mechanical influence

Surface / Substrate

- zinc flake basecoat
- steel
- high-strength steel
- stainless steel
- zinc die cast

- passivated zinc/zinc alloys
- typical dry film thickness of 6-12 µm
- The technical feasibility depends on pretreatment and individual characteristics of each material.

Application technology



dip-spin

spray

brushing

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

Metrical threaded
bolts >M16

Metrical threaded
bolts M2-M16

Non metrical
threaded parts



Nuts

Pipes and tubes

SPECIFICATIONS

MAN - 183-3