Zintek® ONE HP

Zinc flake coatings from Atotech

General Metal Finishing | Zinc flake coatings | atotech.com

Superior protection with ONE coat

Economic choice – Best-in-class single layer base coat

MKS' Atotech silver zinc flake base coat eliminates the need for a second coat without compromising on performance. Zintek® ONE HP uses just one zinc flake layer to deliver exceptional quality coating up to 720 h NSST. Standard zinc flake base coats often require a costly and time-intensive second coating step. Zintek® ONE HP only needs one coat and is therefore designed to reduce processing and handling costs, energy consumption and coating line occupancy. This makes Zintek® ONE HP a cost-effective alternative to multi-layer zinc flake applications, hot-dip galvanizing and even electroplated corrosion protection finishes.

Corrosion resistance

Base coat	Top coat	Durability
6 - 8 µm	–	720 h*
6 - 8 µm	2 µm	>1,000 h*

Corrosion resistance acc. to *ISO 9227 and layer thickness may vary depending on part geometry, substrate and application method.

Features and benefits

- Inorganic silver zinc flake base coat
- One layer system
- Excellent cathodic corrosion protection
- Reliable corrosion protection of 720 h* NSST with only one coat (6 – 8 µm)
- Very good adhesion and wear resistance
- Attractive alternative to multi-layer zinc flake coatings, hot-dip galvanizing and plating finishes
- No hydrogen embrittlement
- Free of harmful heavy metals such as Cr(VI), cadmium, cobalt, lead or nickel
- Combinable with Atotech's top coats
- Reducing operating cost and processing time compared to standard two layer coatings

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Application

- Dip-spin

Top coat combinations

- With inorganic Zintek® Top
- With organic Techseal®
- With organic Techdip®

Parts (application)

- Fasteners
- Stamping parts
- Brake components
- Springs

Application parameters

- Application viscosity: 80 – 120 sec
- Curing time: 20 – 45 min
- Curing temperature: 220 – 240 °C
- Recommended 30 min at 230 °C object temperature with application viscosity of 90 – 110 sec

Coefficient of friction

- No defined coefficient of friction (μ_{tot})

Technical data

- Delivery density: 1.47 – 1.62 g/cm³ (at 23 °C)
- Stability in sealed drums: 24 months
- Theoretical coverage rate: 30 m²/kg (based on 7 µm dry film)

Corrosion performance (7 µm layer thickness)

0 h

480 h*

720 h*

Atotech an MKS Brand

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