

Zintek® 300 HP

Zinc flake coatings from Atotech



General Metal Finishing

Zinc flake technology

atotech.com

The best black base

Black zinc flake base coat staves off white corrosion formation while meeting automotive standards

MKS' Atotech Zintek® 300 HP is an inorganic black zinc flake base coat that, in combination with Atotech top coats, offers excellent corrosion protection and expertly delays white corrosion formation. The black zinc flake base coat has strong adhesive properties, a uniform dark appearance and does not exhibit any hydrogen embrittlement. Zintek® 300 HP is free of harmful heavy metals such as Cr(VI), cadmium, cobalt, lead, or nickel. The solvent-based base coat has been approved for various automotive standards such as Volkswagen TL 180 and TL 233.



Corrosion resistance

Base coat	Top coat	Durability
6 µm	3 µm	> 240 h*
6 µm	7 µm	> 840 h*
6 µm	7 µm	7 cycles**

Corrosion resistance acc. to *ISO 9227 / **Ford L-467 and layer thickness may vary depending on part geometry, substrate and application method.

Features and benefits

- Inorganic black zinc flake base coat
- Excellent corrosion protection in combination with Atotech's top coats
- Excellent delay of white corrosion formation
- Very good adhesion
- Attractive uniform dark appearance
- Solvent-based
- No hydrogen embrittlement
- Free of harmful heavy metals such as Cr(VI), cadmium, cobalt, lead or nickel
- Approved for e.g. Volkswagen TL 180 and TL 233

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Application

- Dip-spin

Parts (application)

- Fasteners
- Stamping parts
- Springs
- Clips

Coefficient of friction

- No defined coefficient of friction (μ_{tot})
- Black base coats are always applied in combination with top coats

Corrosion performance



Start

7 cycles**

Combinations

- Combinable with inorganic Zintek® Top
- Combinable with organic Techseal®
- Combinable with organic Techdip®

Application parameters

- Application viscosity: 42 – 53 sec
- Curing time: 20 – 45 min
- Curing temperature: 230 – 260 °C
- Recommended 30 min at 250 °C object temperature

Technical data

- Delivery density: 1.65 – 1.85 g/cm³ (at 23 °C)
- Stability in sealed drums: 18 months
- Theoretical coverage rate: 27 m²/kg (based on 10 µm dry film)



Start

1,200 h*

