Zintek® 300 HP

Zinc flake technology from Atotech

General metal finishing | Zinc flake technology | www.atotech.com

The best black base

Zinc flake coating systems

Zinc flake technology provides a high grade of corrosion protection using combinations of specialized base and top coats. Largely embraced by the fastener industry, such coatings find widespread use within a variety of applications: ranging from fasteners, hose clamps, clips or brake components for the automotive industry, special fasteners in the wind power, construction and other industries. Atotech offers a comprehensive range of processes including silver and black finishes for different application areas. The coatings are completely Cr(VI)-free and fulfill global automotive performance requirements.

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

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Application

- Dip-spin

Combinations

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

Parts (application)

- Fasteners
- Stamping parts
- Springs
- Clips

Application parameters

- Application viscosity: 46 – 55 sec
- Curing time: 15 – 45 min
- Curing temperature: 230 – 260 °C
- Recommended 30 min at 250 °C object temperature

Coefficient of friction

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

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)

Corrosion performance

Start

7 cycles**

Start

1,200 h*

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