



Best protection with ONE coat

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	Durability
6 - 8 μm	480 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 480 h NSST with only one coat (6 – 8 μm)
- Very good adhesion and wear resistance
- Attractive silver appearance
- Solvent-based
- No hydrogen embrittlement
- Free of harmful heavy metals such as Cr(VI), cadmium, cobalt, lead or nickel
- Combinable with Atotech's top coats
- Highly cost effective process

Zintek® ONE

Zinc flake technology from Atotech

Application

- Dip-spin

Parts (application)

- Fasteners
- Stamping parts
- Brake components
- Springs

Coefficient of friction

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

Corrosion performance



Start

Combinations

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

Application parameters

- Application viscosity: 80 – 130 sec
- Curing time: 20 – 45 min
- Curing temperature: 210 – 240 °C
- Recommended 30 min at 230 °C object temperature

Technical data

- Delivery density: 1.45 – 1.60 g/cm³ (at 23 °C)
- Stability in sealed drums: 24 months
- Theoretical coverage rate: 22 m²/kg (based on 10 µm dry film)



> 480 h*

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