

Techdip[®] Black SL HC

Zinc flake technology from Atotech



General metal finishing

Zinc flake technology

www.atotech.com

Black top coat for increased covering power

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
3 µm	6 µm	> 480 h*
6 µm	7 µm	> 1,000 h*
6 µm	7 µm	> 6 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

- Organic black top coat
- Excellent corrosion protection
- High hiding power on silver and black base coats
- Appealing uniform black appearance
- Enhanced UV-stability
- Very good adhesion
- Solvent-based
- Integrated lubricant
- No hydrogen embrittlement
- Excellent corrosion resistance in NSST and cyclic corrosion tests

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Application

- Dip-spin
- Spray

Parts (application)

- Fasteners
- Chassis part
- Stamping parts
- Springs
- Clips

Coefficient of friction

- 0.13 (μ_{tot}) according to Ford WZ102
- 0.11 – 0.17 (μ_{tot}) according to Volvo

Corrosion performance



Start

Combinations

- Combinable with Zintek® base coats
- Combinable with electroplated and passivated finishes

Application parameters

- Application viscosity: 42 – 55 sec
- Curing time: 15 – 40 min
- Curing temperature: 180 – 220 °C
- Recommended 20 min at 210 °C object temperature

Technical data

- Delivery density: 1.06 – 1.16 g/cm³ (at 20°C)
- Stability in sealed drums: 24 months
- Theoretical coverage rate: 35 m²/kg (based on 10µm dry film)



1,000 h*

