

Techdip® Black SL HC

Zinc flake technology from Atotech



General Metal Finishing

Zinc flake technology

atotech.com

Black top coat for increased covering power

Black, high-coverage power and excellent corrosion protection

MKS' Atotech solvent-based, organic black top coat, Techdip® Black SL HC, masterfully conceals silver and black base coatings. With improved UV stability, the attractive and uniform top coat offers a matt-shiny black finish.

Techdip® Black SL HC provides superlative chemical resistance, adhesion, and corrosion resistance in NSST and cyclic corrosion tests. The integrated lubricant caters to controlled friction properties.



Features and benefits

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

Corrosion resistance

Base coat	Top coat	Durability
3 µm	6 µm	> 480 h*
6 µm	6 µm	> 720 h*
6 µm	6 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.

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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 – 50 sec
- Curing time: 15 – 40 min
- Curing temperature: 180 – 220 °C
- Recommended 30 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*

