

Zintek® Top Black SL

Top coat for passivated zinc and zinc alloys



General Metal Finishing

Zinc flake technology

atotech.com

Combined systems for the most durable and appealing black finish

Two technologies - many possibilities

Combined coating systems of electroplating, passivation and top coat are capable of providing extraordinary corrosion protection, appealing and durable appearance as well as further properties like controlled friction.



Zintek® Top Black SL is a glossy black, solvent-based, reactive top coat that provides exceptional results in corrosion protection, appearance, adhesion, ductility, and bendability on electroplated and passivated zinc and zinc alloy finishes.

Corrosion resistance

| Zn plating | Top coat | White corrosion | Base metal corrosion |
|--------------|----------|-----------------|----------------------|
| 8 µm | 2 µm | 240 h* | ≥ 480 h* |
| 12 µm | 2 µm | 240 h* | ≥ 720 h* |
| ZnNi plating | Top coat | White corrosion | Base metal corrosion |
| 8 µm | 2 µm | 240 h* | ≥ 1,000 h* |
| 8 µm | 2 µm | | 4 cycles** |

Corrosion resistance without base metal corrosion acc. to *ISO 9227 / **VW PV1209 and layer thickness may vary depending on part geometry, substrate and application method.

Features and benefits

- Solvent-based, reactive top coat
- Exceptional results on electroplated and passivated zinc and zinc alloy finishes
- Very attractive glossy black appearance
- High color stability with superb white corrosion delay
- Excellent corrosion protection
- High coverage
- Outstanding adhesion with first-rate ductility and bendability
- Integrated lubricant for controlled friction

Zintek® Top Black SL

Black, reactive top coat

Application

- Dip-spin
- Spray

Parts (application)

- Fasteners
- Stampings

Coefficient of friction

- 0.10 – 0.16 (μ_{tot}) acc. ISO 16047

Corrosion performance

Alkaline ZnNi + black passivate + Zintek® Top Black SL



After coating



720 h



1,008 h

Further products that belong to the Zintek® Top S family

- Zintek® Top Black S – non-lubricated black coating
- Zintek® Top S – non-lubricated clear coating
- Zintek® Top SL – lubricated clear coating

Combinations

- Combinable with electroplated Zn/Zn-alloy and passivated finishes

Application parameters

- Make up: ready to use
- Curing time: 15 – 40 min
- Curing temperature: 130 – 210 °C
- Recommended 30 min at 160 °C object temperature

Technical data

- Delivery density: 0.95 – 1.00 g/ml (at 23 °C)
- Stability in sealed drums: min. 24 months
- Theoretical coverage rate: 79 m²/kg (based on 3 µm dry film)

