

Zintek® Top LV

Zinc flake top coat



General Metal Finishing

Zinc flake technology

atotech.com



Thin layer top coat preventing heat-loosening

Clear top coat approved for multiple automotive standards

Thanks to its reactive properties, the clear, thin-layered, silicate-based top coat Zintek® Top LV of approx. 1.5 µm thickness provides enhanced corrosion protection. It possesses an integrated lubrication, which ensures that complex CoF requirements set out by automotive OEMs, such as low scattering at multiple mounting, can be met without difficulties. Its integrated UV-tracer facilitates the verifiability of the transparent finish under ultraviolet light. Zintek® Top LV is approved for automotive standards like Volkswagen TL 245 and Mercedes-Benz MBN10544.

Corrosion resistance

Base coat	Top coat	Durability
8 µm	1 µm	720 h*
10 µm	1 µm	>1,300 h*

Corrosion resistance acc. to *ISO 9227 and layer thickness may vary depending on part geometry, substrate and application method.

Features and benefits

- Inorganic silicate-based top coat
- Increasing significantly corrosion protection
- Very thin layer thickness (~1.5 µm)
- Very good adhesion
- Controlled CoF properties: low scattering even at multiple mounting
- Fulfilling Volkswagen's heat loosening and multiple mounting requirements
- Attractive transparent appearance
- Integrated UV-tracer
- No hydrogen embrittlement
- Excellent results on zinc flake base coats as well as on electroplated zinc/zinc alloys
- Approved for e.g. Volkswagen TL245 and Mercedes-Benz MBN10544

Zintek® Top LV

Clear inorganic top coat

Application

- Dip-spin

Combinations

- Combinable with Atotech's silver Zintek® base coats as well as with electroplated and passivated finishes

Parts (application)

- Fasteners
- Screws
- Bolts
- Nuts

Application parameters

- Make up: Deionized water
- Curing time: 15 – 40 min
- Curing temperature: 100 – 140 °C
- Recommended 30 min at 120 °C object temperature

Coefficient of friction

- 0.09 – 0.15 (μ_{tot}) acc. to VW 01131
- 0.08 – 0.14 (μ_{tot}) acc. to Mercedes-Benz MBN10544

Technical data

- Delivery density: 1.05 – 1.10 g/cm³ (at 20 °C)
- Stability in sealed drums: 18 months
- Coverage rate: 110 m²/kg (based on 1.5 µm dry film)

Corrosion performance



Start



1,000 h*



1,400 h*

