

Zintek[®] 400

Zinc flake base coat



General Metal Finishing

Zinc flake technology

atotech.com

Best protection in spray application

Spray zinc flake solution for ambient temperature curing

Zintek[®] 400, MKS' Atotech silver organic zinc flake base coat, is designed for spray application onto large parts when oven curing is either time-consuming or simply not possible. Because the base coat can be dried at very low temperatures, dry-off is even possible at room temperature. Zintek[®] 400 provides excellent corrosion resistance and protection against creep corrosion. The ductile and bendable coating is highly adhesive and can be overcoated with other materials, like powder coating, free and fulfill global automotive performance requirements.

Corrosion resistance

| Base coat | Durability |
|-----------|------------|
| 25 µm | 720 h* |
| >35 µm | 2,000 h* |

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



Features and benefits

- Silver organic zinc flake base coat
- Optimized for spray application
- Very good corrosion resistance and protection against creep corrosion
- Very low drying temperatures
- Dry off even at room temperature possible
- Suitable for large parts where oven curing is time-consuming or not possible
- Ductile and bendable coating
- Very good adhesion
- Overcoating possible e.g. with powder coating
- No hydrogen embrittlement
- Free of harmful heavy metals such as Cr(VI), cadmium, cobalt, lead or nickel

Zintek[®] 400

Silver organic base coat

Application

- Spray

Parts (application)

- Large and complex shaped parts
- Chassis parts
- Large stamping parts

Coefficient of friction

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

Combinations

- Combinable with different top coats

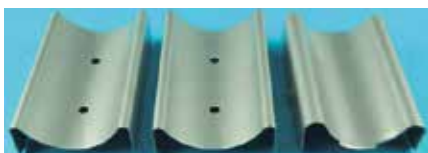
Application parameters

- Application viscosity: 30 – 50 sec
- Drying at 50 – 160 °C object temperature without cross-linker Zintek[®] CL
- Drying at 25 – 80 °C object temperature with cross-linker Zintek[®] CL
- Optimum drying: 25 min at 160 °C object temperature without cross-linker, time depends on temperature and part size, e.g. 24 hours at 25 °C

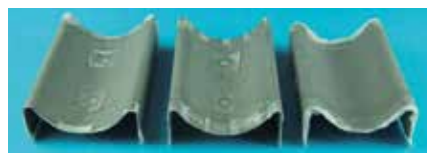
Technical data

- Delivery density: 1.29 – 1.33 g/cm³ (at 23 °C)
- Stability in sealed drums: 24 months
- Theoretical coverage Rate: 21 m²/kg (based on 10 µm dry film)

Corrosion performance



0 h



720 h*



2,000 h*

