Techseal® Black SL G

Zinc flake top coat

General Metal Finishing | Zinc flake technology | atotech.com

Functionality meets design

Black top coat for automotive applications

Techseal® Black SL G is MKS' Atotech solvent-based and organic black top coat. Thanks to excellent corrosion protection, a uniform and attractive black appearance, and controlled friction properties, Techseal® Black SL G has been approved for GMW 3359 automotive specification. The top coat is highly adhesive, free of harmful heavy metals such as Cr(VI), cadmium, cobalt, lead, or nickel, and does not exhibit any hydrogen embrittlement.

Corrosion resistance

Base coat	Top coat	Durability
6 µm	3 µm	240 h*
6 µm	7 µm	720 h*
6 µm	7 µm	52 cycles**

Corrosion resistance acc. to *ISO 9227 / **GMW 14872 and layer thickness may vary depending on part geometry, substrate and application method.

Features and benefits

- Organic black top coat
- Approved for GMW 3359 specification
- Excellent corrosion protection
- Very good adhesion
- Attractive uniform black appearance
- Solvent-based
- Integrated lubricant
- No hydrogen embrittlement
- Free of harmful heavy metals such as Cr(VI), cadmium, cobalt, lead or nickel

mks | Atotech

Techseal® Black SL G
Black organic top coat

Application

- Dip-spin
- Dip-drain
- Spray

Combinations

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

Parts (application)

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

Application parameters

- Application viscosity: 32 – 50 sec
- Curing time: 15 – 45 min
- Curing temperature: 190 – 220 °C
- Recommended 25 min at 210 °C object temperature

Coefficient of friction

- 0.10 – 0.16 (μ_{tot}) acc. to GM
- Fulfilling +/- 3 Sigma acc. GM

Technical data

- Delivery density: 1.10 – 1.20 g/cm³ (at 23 °C)
- Stability in sealed drums: 24 months
- Coverage rate: 25 m²/kg (based on 10 µm dry film)

Corrosion performance

Start

52 cycles**

Start

720 h*