Techseal® Black SL G

Zinc flake technology from Atotech

General metal finishing | Zinc flake technology | www.atotech.com

Functionality meets design

Zinc flake coating systems

Zinc flake technology provides a high grade of corrosion protection using combinations of specialized base and top coats. Largely embraced by the fastener industry, such coatings find widespread use within a variety of applications: ranging from fasteners, hose clamps, clips or brake components for the automotive industry, special fasteners in the wind power, construction and other industries. Atotech offers a comprehensive range of processes including silver and black finishes for different application areas. The coatings are completely Cr(VI)-free and fulfill global automotive performance requirements.

Features and benefits

- Organic black top coat
- Fulfills 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

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.

ATOTECH

Techseal® Black SL G
Organic black 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: 40 – 55 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: 32 m²/kg (based on 10 µm dry film)

Corrosion performance

Start

52 cycles**

Start

720 h*

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