



## DELTA MKS®

**DELTA® micro-layer corrosion protection systems** are composed of a basecoat and optional topcoat, allowing for customised solutions in terms of functional properties, frictional behaviour and corrosion. The basecoat is a layer with a high content of **zinc and aluminium flakes** embedded in a resin-free matrix. This resin-free layer composition ensures electrical conductivity, and thus cathodic protection, and is therefore an essential component of the system's corrosion protection.

# DELTA MKS®

## PROCESS FLOW

BENSELER uses blasting, fine blasting or zinc phosphate coating processes in pre-treatment to achieve optimum adhesion of the corrosion protection layer.

**DELTA-PROTEKT® KL100** and **DELTA-TONE® 9000** are suitable basecoats. Both systems are thermoreactive with a zinc and aluminium content of > 85 %.

**DELTA-SEAL®** is a highly cross-linked, organic topcoat. It is electrically insulating and thus suppresses galvanic corrosion. **DELTA-PROTEKT®** can be used for making inorganic, predominantly silica-based post-sealing coatings. Chemical resistance can be significantly increased with this thin layer of 2 to 4 µm: depending on the part geometries, resistances of up to 1,000 hours have been achieved in salt spray tests for medium layer thicknesses (< 12 µm). BENSELER uses the inorganic **DELTACOLL®** sealer for galvanic, zinc-containing surfaces with conversion coating.

## CHARACTERISTICS

- common base materials: steel, iron materials, zinc and aluminium materials as well as pre-galvanised workpieces
- usual layer thickness: on average approx. 6 to 25 µm
- curing temperature approx. 230 °C
- curing time about 15 minutes per layer
- recoating possible depending on system and topcoat
- chemical resistance to fuels depending on system and topcoat

## LOCATIONS:

### **BENSELER**

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