



# LENNEZINK®

PROBABLY THE WORLD'S BEST CORROSION PROTECTION



WELDABLE  
OVERCOATABLE  
FREE OF HEAVY METALS



# LENNEZINK®

## PROBABLY

## THE WORLD'S

## BEST CORROSION

## PROTECTION!

## EXTREMELY

## THIN, OPTIMALLY

## DURABLE

With the help of the zinc flake coating, a cathodically protective layer is applied without current. Additional top coatings increase performance. The LENNEZINK®-zinc-flake-coating-system consists of LZ 2 (base coat) and LZ Topcoat (top coat). They result in an optimally coordinated system with multifunctional properties:

With a layer thickness of just a few micrometers, the zinc-flake coating system achieved a durability of a thousand hours in the salt spray test.

- high cathodic protection against corrosion
- defined friction and screwing properties
- good adhesion and abrasion resistance
- high chemical resistance
- electric conductivity
- very thin layer (10–15 µm)
- conserve resources





## SYSTEM CONFIGURATION

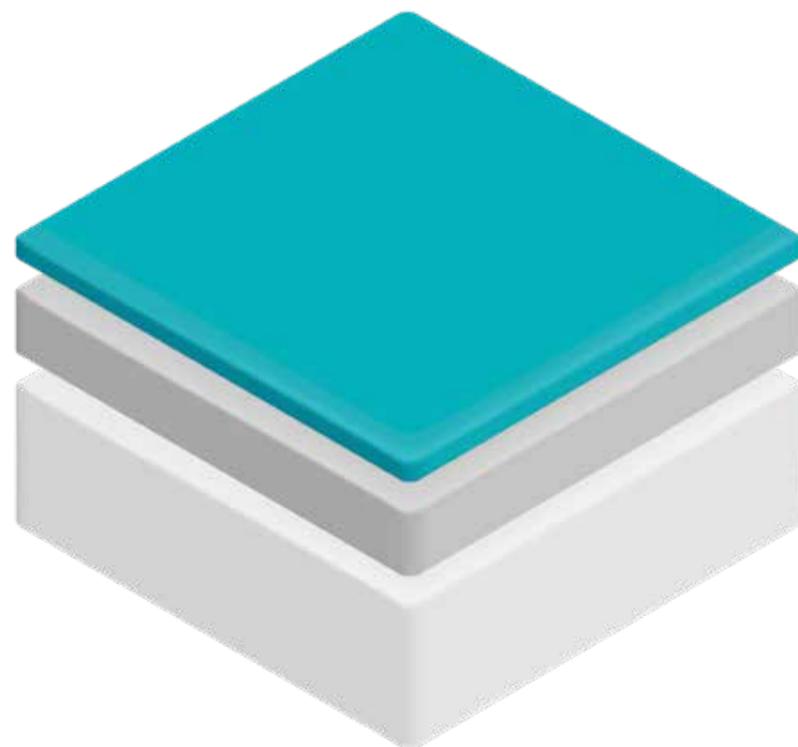
The zinc-flake-coating is a method to apply a cathodically protective layer without current. Additional top coatings increase performance. The LENNEZINK® ZINC-FLAKE-COATING-SYSTEM consists of a base

coat (LZ 2) and a top coat (LZ TOPCOAT). The result is an optimally coordinated system with multifunctional properties.

LZ Topcoat ○ ○ ○ ○ ○ ○

LZ 2 (Basecoat) ○ ○ ○ ○ ○ ○

Base material ○ ○ ○ ○ ○ ○

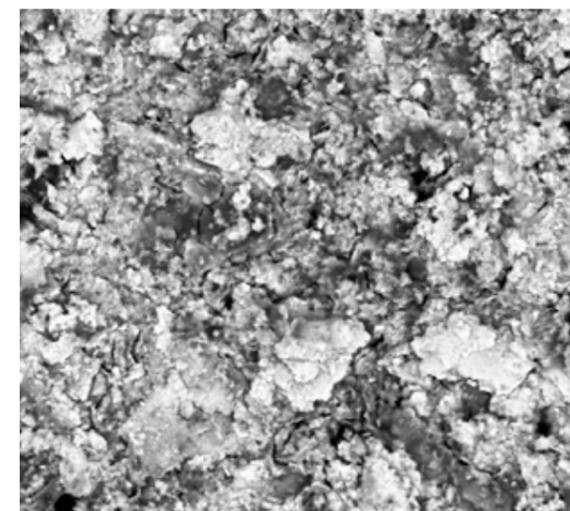


### LENNEZINK LZ 2: HIGH CATHODIC CORROSION PROTECTION

The base coats LZ 2 Silver and LZ 2 Black provide active corrosion protection thanks to the sacrificial effect of the zinc flakes. These are highly efficient systems that are also available as air-drying and forced-drying variants. No hydrogen embrittlement is caused during application. The basecoats themselves can be adjusted to the individually required coefficient of friction with integrated lubricants.

### LENNEZINK TOPCOAT: INDIVIDUAL ADJUSTABILITY

LZ TOPCOAT is an organic topcoat that is specially designed for use with LZ 2. The coating material is also ideal as a topcoat for duplex applications on galvanic surfaces (such as zinc and zinc alloys). Thanks to its individual adjustability, it complements and increases the corrosion protection of the basecoat and defines the mechanical properties of the system. In combination with LZ 2 black, for example, permanent black coatings can be achieved for the automotive industry.



### OVERVIEW OF PROPERTIES

- High cathodic protection against corrosion
- Defined friction and screwing properties
- Good adhesion and abrasion resistance
- High chemical resistance
- Electric conductivity
- Very thin layer (8-12 μm)
- Conserving resources



## APPLICATION AREAS

### AUTOMOTIVE INDUSTRY

With the ongoing development of new construction methods in the automotive industry, the requirements in terms of layer thickness, heat resistance and screwing properties are growing. Here, the LENNEZINK®-zinc-flake-coating-systems prove to be the system of choice thanks to their wide range of possible uses as well as their high productivity and performance.



- belt buckles and belt deflectors
- brake disc
- compression springs
- Federbanschellen
- rear axle
- screws and nuts

### CONSTRUCTION INDUSTRY

In the construction sector, LENNEZINK®-systems are ideal for a wide range of fasteners.



- bolt
- cable channels
- post connection elements
- screws and nuts
- door fittings

### COMMERCIAL VEHICLES/ TWO-WHEEL INDUSTRY/ AGRICULTURAL MACHINERY

LENNEZINK®-zinc-flake-coating-systems bring decisive advantages in the treatment of commercial vehicles and agricultural machinery as well as in mechanical engineering in general. The performance of the system in combination with the low layer thickness represents a significant advantage in the manufacturing process of various elements and insert parts.



- axle
- bolt
- shifter
- chain links
- screws and nuts
- wishbone

### WIND POWER (ON- AND OFFSHORE)

Wind turbines and their components are exposed to extreme conditions. Accordingly, they must have very good corrosion protection.



- threaded bolts
- screw
- fasteners



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