

Long-Term Corrosion Protection

TESCON-4S-Coating

The long-term corrosion protection TESCO-4S-Coating consists of a four-step process with three surface layers providing the perfect protection for every climate. The thickness of the complete corrosion protection layers is approx. 260 μ .

STEP 1: Preparation (Clean-Blasting of the steel surface)

The basic preparation of steel surfaces for an optimal application of the corrosion protection layers is the perfect cleaning. All metal parts are blasted clean according to Swedish standard SIS 055900, level Sa3 to obtain a surface with a special defined surface roughness. This surface structure is the optimal basis for the subsequent application of the corrosion protection layers.

STEP 2: First Layer (Galvanizing of the surface by arc galvanizing)

Immediately after the clean blasting process 100% pure zinc is applied to the blasted clean steel surface by electrical arc galvanizing according to DIN 8565 and DIN 8566. During this process zinc wire is melted in the arc with very high temperatures and is applied to the steel surface from a short distance. The extremely hot and liquid zinc turns into a fused adhesive coating with the rough steel surface. The minimum thickness of the layer is 100 μ . An important advantage of arc galvanizing is the small quantity of heat being transferred to the steel surface. This prevents thermal distortion of the material.

STEP 3: Second Layer (First plastic coating)

Either 2-component coating or powder coating. Minimum thickness of the layer is 80 μ .

STEP 4: Third Layer (Second plastic coating)

Either 2-component coating or powder coating. Minimum thickness of the layer is 80 μ .

Finished Corrosion Protection

The minimum thickness of the finished coating is approx. **260 μ**.

