

# The innovative corrosion protection system

corropro protection system



# Safe. Innovative. pewag.

## The innovative corrosion protection system from pewag

**pewag corropro is an electrochemical deposited anticorrosion coating, which has a zinc bondering pretreatment. In a dipping bath, an epoxy based anticorrosion layer is electrochemically isolated on the surface of the work pieces by coagulating the binder. The so isolated micro layer is hardened in special ovens at a temperature of 150 °C – 180 °C.**

pewag corropro is not containing any heavy metals like lead, cadmium and hexavalent chromium (CrVI-free).

Technical properties of the products are not influenced negatively. The coating process is free of hydrogen to the work piece. This is very important on products with high material strengths over 1.000 N/mm<sup>2</sup>.

The colouring is black, similar to RAL 9005.

The size of the layer is 20±5 µm. Because of this very thin micro layer, the corrosion protection system is very suitable for complex structures, like threads or movable parts.

### **Crosscut adhesion test method acc. to: ISO 2409, DIN 53151, ASTM 3002, ASTM D3359**

The crosscut adhesion test provides information about the bond strength of PCP on the surface. With crosscut significant value 0 (null) – PCP shows optimal adhesion. A sub-surface migration and delamination of the PCP- layer by corrosion processes is avoided due to the optimal adhesion.

### **Outdoor weathering test**

The chain was over 12 months exposed to weathering of rain, sun and snow. Beside a slight matt look of the surface none erosion could be noticed.

### **Corrosion protection values in comparison**

Salt spray test according to ISO 9227 (duration without corrosion of the base material respectively red rust)\*

Corrosion protection values in comparison	
PCP – corropro	> 430 h
PC – powder coated	> 360 h
GZN – electro galvanized 10 µm, blue chromated	120 h
LAC – varnished	24 h

\*) At mechanical undamaged, not covered areas. Minimal covered areas may occur at the coating process.

### **Magnetic crack detection („Magnaflux process“)**

pewag corropro-coated chains and components are able to be tested by magnetic crack detection without problem.




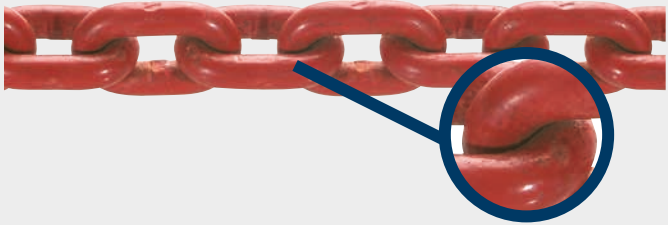



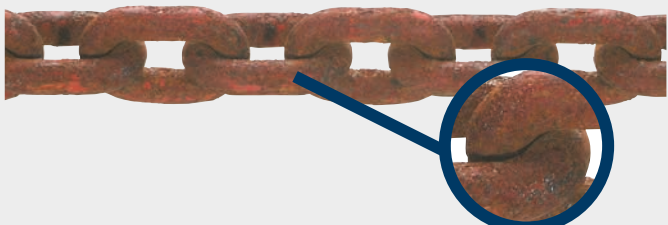
### **Indication of PCP**

For the pewag articles the coating with pewag corropro is indicated by the abbreviation PCP.

Example of order text: WINNER 400 PAS – 8x24 PCP

**pewag corropro**

Salt spray test –  
to ISO 9227 (NSS-test)

Starting situation	Final state
<p><b>PCP – corropro</b></p> 	<p><b>528 h</b></p> 
<p><b>PC – powder coated</b></p> 	<p><b>528 h</b></p> 
<p><b>GZN – electro galvanized</b></p> 	<p><b>288 h</b></p> 
<p><b>LAC – varnished</b></p> 	<p><b>168 h</b></p> 



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