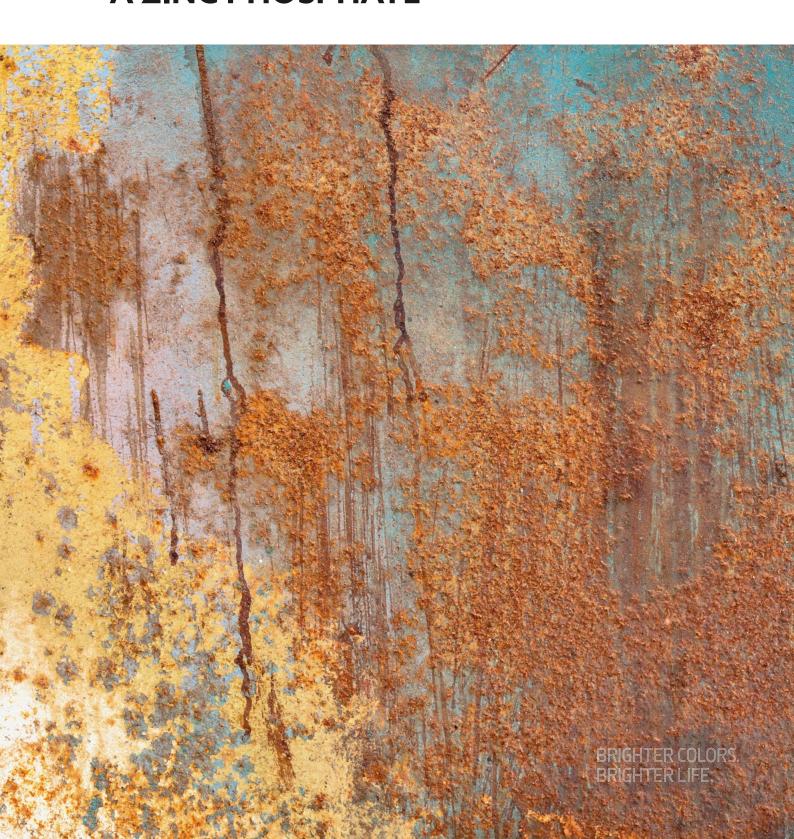
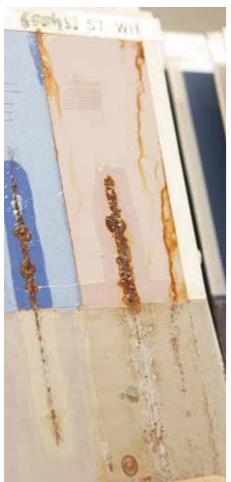
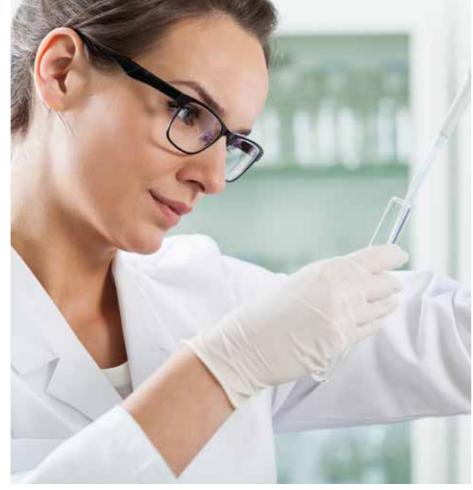


ZINC PHOSPHATE ZP 10 MORE THAN JUST A ZINC PHOSPHATE









Zinc Orthophosphate Hydrate

Corrosion can be inhibited by chemical physical (Barrier Pigments) processes of anticorrosive pigments.

Heubach initiated the replacement of chro- disperse and shows a low solubility behavime-based anticorrosives and became the our. Therefore it provides high compatibility world market leader in this field. The first with both solvent and water based resins. chrome-free anticorrosive was the standard zinc phosphate.

Zinc Phosphate ZP 10 is a micronized white and/or electrochemical (Active Pigments) or anti-corrosive pigment for the application in protective coatings, suitable for a wide range of different primer applications. It is easy to

The Corrosion Cell

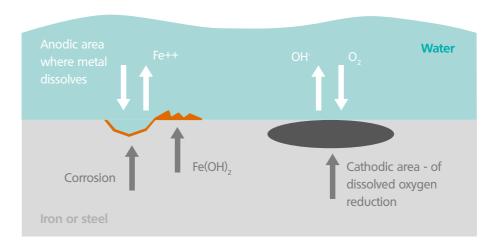


Fig. 1 The formation of rust, a corrosion cell

The corrosion of iron is an electrochemically driven process of energy exchange. With the presence of humidity iron passes into solution at the anode and hydroxyl ions are formed out of water and oxygen at the cathode.

Due to the existence of an electrolyte there is the possibility for the electrons to react at the cathode with the environment. The result is the formation of rust (Fig. 1).

Benefits

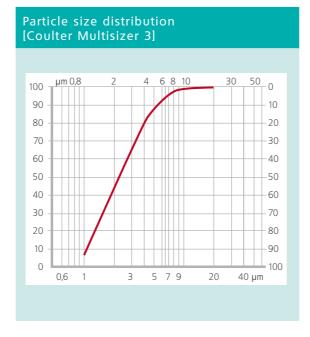
Benefits compared to other zinc phosphates:

- › Optimized particle structure
- > Very narrow particle size distribution
- > Excellent dispersibility
- Adjusted water soluble content
-) Improved protective performance





| Technical data | | |
|--|-------------|--------------------------|
| Zinc as Zn [%] | 50.5 - 52.0 | acc. to ISO 6745 |
| Phosphorous as PO ₄ ³⁻ [%] | 47.0 - 49.0 | acc. to ISO 6745 |
| Loss on ignition 600℃ [%] | 8.5 - 13.0 | acc. to ISO 6745 |
| Water-soluble chloride [%] | max. 0.025 | acc. to ISO 787, Part 13 |
| Water-soluble sulphate [%] | max. 0.05 | acc. to ISO 787, Part 13 |
| Conductivity [μS/cm] | max. 150 | ISO 787, Part 14 |
| рН | 6.0 - 8.0 | ISO 787, Part 9 |
| Lead as Pb [ppm] | max. 10 | ICP-OES ICP |
| Cadmium as Cd [ppm] | max. 10 | ICP-OES ICP |
| Density [g/cm³] | typ. 3.3 | acc. to ISO 787, Part 10 |
| Bulk density [g/cm³] | typ. 0.4 | |
| Oil absorption value [g/100g] | typ. 20 | ISO 787, Part 5 |
| Sieve residue 32 microns [%] | max. 0.01 | acc. to ISO 787, Part 7 |
| Average particle size [microns] | 2.0 - 3.5 | acc. to ISO 13319 |



Zinc Phosphate ZP 10

504h Salt Spray (ASTM B 117-11) DIN EN ISO 9227: 2012-09

Primer: Solvent based short-oil alkyd

DFT: 70 microns

Substrate: Cold rolled steel panels ST 1205







Control

ZP 10

Comp. zinc phosphate

Zinc Phosphate ZP 10

624h Salt Spray (ASTM B 117-11) DIN EN ISO 9227: 2012-09

Primer: Solvent based epoxy

DFT: 70 microns

Substrate: Cold rolled steel panels ST 1205







Control

ZP 10

Comp. zinc phosphate

Zinc Phosphate ZP 10

480h Salt Spray (ASTM B 117-11) DIN EN ISO 9227: 2012-09

Primer: Waterbased alkyd emuslion

DFT: 70 microns

Substrate: Cold rolled steel panels ST 1205







Control

ZP 10

Comp. zinc phosphate



∑inc Phosphate



Our service

all of which can be demonstrated in practi- and solutions. cal tests. Accordingly the identification of the right anti-corrosive pigment for your paint or coating application can prove a complicated undertaking.

In our laboratories we investigate the corrosion behavior of our products in a variety of different binding agents. Supported by extensive laboratory facilities, Heubach's technical specialists are always on hand to assist you in indentifying the right solution, no matter how challenging your task.

At Heubach, customer satisfaction comes With active service centers both globally and first. The performance of anti-corrosion pig- regionally we provide our customers with ment depends on a number of factors (bin- the technical support essential for the impleder agent system, base coat, formulation etc.) mentation of customer-specific requirements







HEUBACH GROUP

Marketing And Sales Anticorrosives Phone +49 5326 520 (Germany)

de.sales@heubachcolor.com www.heubach.com

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