



WEICON

SURFACE AND ANTI-CORROSION COATINGS

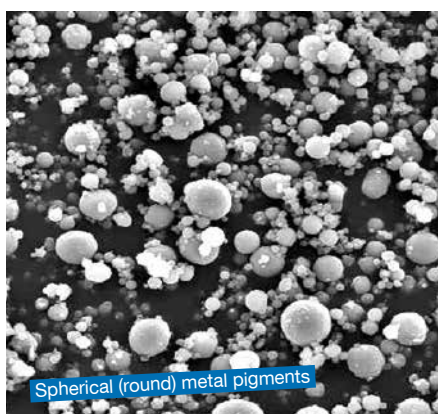


METAL PIGMENT COATINGS

Metal pigment coatings are used as a means for protecting metallic surfaces against corrosion. In addition, zinc, aluminium and stainless steel pigments provide an individual colour shade with which frames, gates, doors, railings, masts, posts and other constructions or machine parts can be effectively touched up or coated.

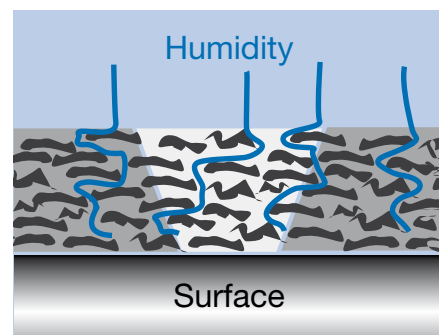
In contrast to emulsion paints or varnishes where the colour is the most important selection criterion, with metal pigment coatings the most important factor is corrosion protection. With **WEICON Metal Pigment Coatings**, both aspects are covered: Effective protection against corrosion and metallic surfaces with a great look.

WEICON Metal Pigment Coatings achieve the outstanding protection against corrosion using two different technologies. **WEICON Brushable Liquid Zinc Paint** uses high concentration and pure spherical (round) metal pigments. The high amount of zinc in the coating ensures efficient cathodic corrosion protection. If the surface is damaged, the zinc molecules react with the humidity of the air and form zinc oxide molecules which protect the base material against corrosion.



In the case of **WEICON Brushable Zinc Coating** and **Aluminium Paint**, flaky metal pigments (flakes) settle parallel to the surface in several, spatially displaced layers on the substrate (shingle effect). Through this, the surface is protected from penetrating humidity for much longer (see illustration). Together with the electrochemical effect, which occurs at the same time, optimum protection against corrosion is achieved.

WEICON Metal Pigment Coatings take effect through a mixture of different pigments, additives, binders and solvents which are exactly coordinated with each other. The individual blending of these substances does not just determine the level of corrosion resistance or the optical appearance of the surface, but also characteristics such as flexibility or the hardness of the coating.



The key characteristics of WEICON Metal Pigment Coatings:

- ▶ highly effective protection against corrosion even with thin layers
- ▶ excellent adhesion and great internal strength
- ▶ smooth surface structure and good recoatability. Before recoating (e.g. with Brushable Liquid Zinc Paint), it is often possible to dispense with use of fillers
- ▶ limited porosity and/or permeability (resistance to condensation)
- ▶ brilliant looks with all flake-based coatings



BRUSHABLE LIQUID ZINC PAINT

Efficient cathodic corrosion protection

WEICON Brushable Liquid Zinc Paint is a coating used to actively and permanently protect metallic substrates against corrosion.

Brushable Liquid Zinc Paint uses high concentration and pure spherical (round) metal pigments. The high amount of zinc in the coating ensures efficient cathodic corrosion protection. If the surface is damaged, the zinc molecules react with the air humidity to form zinc oxide molecules which protect the base material from corrosion.

Applications:

- ▶ highly effective anti-rust primer, e.g. for coating vehicle bodies
- ▶ for touch-up of galvanized parts
- ▶ as protection of welded, cut and drilled sections
- ▶ wherever metal parts have to be protected against corrosion

▶ 375 ml ▶ 750 ml ▶ 2,5 L
10000322 10000321 10000403

BRUSHABLE LIQUID ZINC COATING

Repair for galvanized surfaces with a colour shade matching hot-dip galvanization

WEICON Brushable Liquid Zinc Coating provides active protection against corrosion for all metallic surfaces and is available in a colour shade matching the galvanization.

With Brushable Liquid Zinc Coating, flaky metal pigments settle parallel to the surface in several, spatially displaced layers on the substrate (shingle effect). This protects the surface longer from penetrating moisture. Optimal corrosion protection is achieved in connection with the simultaneous electrochemical effect.

Applications:

- ▶ eliminates faulty or damaged surfaces sections caused by drilling, welding, cutting, grinding and milling
- ▶ for touch-up of damaged galvanized surfaces or trailer and truck body parts
- ▶ wherever galvanized parts are to be protected against rust and corrosion.

▶ 375 ml ▶ 750 ml ▶ 2,5 L
10000327 10000328 10000404

ALUMINIUM PAINT

Effective | abrasion-resistant

Aluminium Paint is used as corrosion protection and for the optical enhancement of metallic surfaces. Upon contact with moisture, aluminium pigments form a dense, almost impermeable oxide layer on the surface which prevents further moisture penetration.

High abrasion resistance and a long colour shade guarantee are achieved by pigments which evenly distribute themselves throughout the entire coating upon application.

This protects WEICON Aluminium Paint against abrasion and chemical effects after it has thoroughly hardened.

Applications:

- ▶ metal structures
- ▶ doors, gates, railings and grilles
- ▶ gardening implement and containers
- ▶ vehicles and wheel rims

▶ 375 ml ▶ 750 ml
10027113 10012085



TECHNICAL DATA

	Brushable Liquid Zinc Paint	Brushable Liquid Zinc Coating	Aluminium Paint
Colour shade / level of brilliance:	zinc-grey / matt	matching hot-dip galvanizations	aluminium / metallic shine
Binding agents:	epoxy resin ester	alkyd resin	alkyd combination
Pigment:	zinc pigments (D50 4 µm)	zinc and aluminium pigments (D50 25 µm)	aluminium pigments (D50 16 µm)
Pigment purity:	approx. 98.5 %	approx. AL 99.5 % and ZN 99.9 %	approx. 99.5 %
Specific weight:	2.00 g/cm³	1.25 g/cm³	1.00 g/cm³
Percentage of metal in the dry film:	approx. 60.5 %	approx. 58.5 %	approx. 32.0 %
Viscosity* (DIN EN ISO 2431) / Consistency:	approx. 70 s 4 mm / stretchable	approx. 70 s 4 mm / stretchable	approx. 120 s 4 mm / stretchable
Processing temperature:	+18 °C to +30 °C (+64 °F to +86 °F)	+18 °C to +30 °C (+64 °F to +86 °F)	+18 °C to +30 °C (+64 °F to +86 °F)
Consumption:	approx. 120 ml/m²	approx. 120 ml/m²	approx. 150 ml/m²
Spray consistency:	10 - 20 % universal thinning	10 - 20 % universal thinning	10 - 20 % universal thinning
Drying time (dust dry):	30 minutes	60 minutes	60 minutes
Hardened*:	12 hours	12 hours	12 hours
Recoat / can be reprimed*:	12 hours	12 hours	12 hours
Final hardness*:	48 hours	48 hours	48 hours
Minimum layer thickness (ISO 2409):	50 µm	30 µm	20 µm
Cross-cut test (DIN 53151/ISO 2409):	characteristic value GT 0 to GT 1	characteristic value GT 0 to GT 1	characteristic value GT 0 to GT 1
Salt spray test (DIN EN ISO 9227)	400 hours	200 hours	100 hours
Mandrel bending test, mandrel 5 mm (DIN EN ISO 1519):	no formation of hairline cracks	no formation of hairline cracks	no formation of hairline cracks
Temperature resistance after reaching the final hardness:	approx. +400 °C (+752 °F)	approx. +240 °C (+464 °F)	approx. +300 °C (+572 °F) (from +100 °C (+212 °F), slight discolourations are possible)
Primer:	not necessary	not necessary	WEICON Brushable Zinc Paint / Brushable Zinc Coating
Shelf life**:	12 months	12 months	12 months
Available in:	375 ml and 750 ml can, 2,5 L bucket	375 ml and 750 ml can, 2,5 L bucket	375 ml and 750 ml can
Classification in accordance with Directive 2004/42 EC category 'A/i' single component special paints:	< 500 g/l VOC	< 500 g/l VOC	< 500 g/l VOC

* +20 °C (+68 °F) can / surface temperature and 50 % relative humidity.

** With a constant room temperature and storage in a dry place. This applies to closed original containers which are not exposed to direct and/or indirect sunlight.