

Brushable Liquid Zinc Paint

Introduction

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 Brushable Liquid Zinc Paint paint is a coating with which metallic substrates are actively protected against corrosion. WEICON Brushable Liquid Zinc Paint 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.

Technical data

Colour shade / level of brilliance	Zinc-grey / matt
Binding agent	Epoxy resin ester
Pigment	Zinc pigments (D50 4 µm)
Pigment purity	approx. 98.5 %
Specific weight	1,96 g/cm³
Percentage of metal in dry film	approx. 60.5 %
Viscosity (DIN EN ISO 2431)/Consistency	approx. 70 s 4 mm / stretchable
Processing temperature	+18 to +30 °C
Consumption	approx. 120 ml/m²
Spray consistency	10 - 20 % universal thinning
Dust dry after	30 min.
Hardened after	12 h
Recoatble/can be reprimed after	12 h
Final hardness after	48 h
Minimum layer thickness	50 µm
Cross-cut test (DIN 53151)	Characteristic value GT 0 to GT 1

Salt spray test (DIN 50021, DIN EN ISO 9227)	400 h
Mandrel bending test, mandrel 5 mm (DIN EN ISO 1519)	No formation of hairline cracks
Temperature resistance (final hardness)	about. +400 °C
Primer	not necessary
Shelf life	12 - 18 months
Classification in acc. with Directive 2004/42 EC cat. "A/I"	< 500 g/l VOC

Pretreatment of the surface

Clean the material surfaces and degrease with Cleaner Spray S. In the case of sensitive, non-metallic materials, use WEICON Surface Cleaner.

WEICON Metal Pigment Coatings should at the latest be applied one hour after pre-treatment by e.g. sand blasting, sanding, cleaning or degreasing. Temperature differences between the surface and the air should be kept as small as possible, as otherwise, there is a risk that condensation may form (dew point +7°C).

Processing

Allow the container to reach room temperature (+20°C) and stir the sediment at the bottom of the container well. Apply WEICON Metal Pigment Coatings evenly with a brush or roller.

Whilst processing, stir at regular intervals so that the active agent stays homogenous.

High processing temperatures up to +30°C (max.) and low levels of air humidity help to create an even application and an optimum surface structure.

WEICON Metal Pigment Coatings can also be applied on surfaces with temperatures up to -10°C. In the case of temperatures below zero, the structure of the surface is somewhat worse. On account of the solvent which only evaporates over a long period and the slow hardening, the paint has a tendency to form 'tears' on vertical surfaces.

Storage

Keep away from sources of ignition - No smoking Take precautionary measures against static discharges. Keep in closed original container. Do not store with combustible materials. Store container at cool and aired place. Protect from heat/overheating.

Note

Any product specifications and recommendations given herein must not be seen as guaranteed product characteristics. They are based on our laboratory tests and on practical experience. Since individual application conditions are beyond our knowledge, control and responsibility, this information is provided without any obligation. We do warrant the continuously high quality of our products being free from defects in accordance with and subject to our General Sales Conditions. However, own adequate laboratory and practical tests to find out if the product in question meets the requested properties are recommended. A claim cannot be derived from them. The user bears the only responsibility for non-appropriate or other than specified applications.

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