

I.O.Zinc 211

High performance cold galvanizing protective coating

Innovative products for your success

Uses

I.O.Zinc 211 is most suitable to provide a galvanic protection on iron and steel. It can be used as a self-finish or as a durable rust inhibiting primer beneath selected top coats. It is also recommended for the protection of structural steelworks, agricultural and construction plants and machinery, gates, railings, iron pipe-works, gutter and rust prevention of in-situ welding work and may also be used as a rebar primer.

Advantages

- Protects ferrous metals
- Suitable as a primer or self-finish
- Prevents rust creep
- Easily applied by brush or roller

Description

I.O. Zinc 211 is zinc rich coating is formulated as an easily applied, cold galvanizing protection against corrosion on all ferrous metals. I.O. Zinc 211 has a mid-grey, matt finish.

Design criteria

I.O. Zinc 211 should be applied in two coats when employed as a self-finish and one coat when used as a primer. To achieve the correct protection, I.O. Zinc 211 must be applied on the substrate at the coverage recommended.

Properties

Pigment volume concentration :	80%
Zinc content by volume on dry film :	61%
Zinc content by weight on dry film :	90%
Drying time :	<1 Hour (BS 4652:1971)
Recoating time :	24 hours minimum
Flexibility :	No cracking, flaking or (BS4652:1971) detachment from substrate was observed
Salt spray test :	No sign of blistering or (BS 4652: 1971) discoloration on the surface after 10 hours exposure
Resistance to Impact :	No damage was sustained (BS 4652: 1971) under impact

Specification

The anticorrosive primer shall be of zinc rich material specifically designed to provide a rust inhibiting protection to ferrous metalwork.

Instructions for use

Preparation

All ferrous surfaces must be clean and free from oil, grease, mill scale, rust and existing coatings. This is best achieved by grit blasting, although thorough wire brushing can be sufficient. Some rust removers based on phosphoric acid tend to leave an electrically insulating film on ferrous metals and must not be used.

Mixing

I.O. Zinc 211 must be thoroughly stirred to give a uniform product prior to application. It is recommended that the contents are stirred frequently during application to avoid settlement. I.O. Zinc 211 is supplied at the correct consistency for direct application from the tin but, should it be found necessary to thin, only I.O. Zinc 211 Thinner should be added, at a rate not exceeding 1 liter of thinner to 8 liters of I.O. Zinc 211.

Application

In order to obtain the protective properties of I.O. Zinc 211, it is important that the correct rate of application is achieved.

Number of coats : 1 or 2

The minimum application temperature is 5°C.

All prepared surfaces should be treated with one or more coats of I.O. Zinc 211. The material should be liberally applied without any attempt to brush or roll out. The required thickness of coating may be built up by successive applications of I.O. Zinc 211 when the previous coat is completely dry.

Over-coating

Although usable as a self-finish, it is recommended that I.O. Zinc 211 be over-coated to protect from mechanical damage and chemical attack outside pH 5-9. It is recommended that the I.O. Zinc 211 coating be allowed to weather for at least 3 days before proceeding. The over-coating should take place with a non-saponifiable material, such as Cemcrete water based lead free rust inhibitive pigmented plasticized vinyl chloride (**PVC Cote 400WB**) or a solvent-based acrylic or chlorinated rubber material. Cellulose, bituminous, alkyd and water-based coatings are not suitable.

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Cleaning

I.O. Zinc 211 should be removed from tools and equipment with I.O. Zinc 211 Thinner immediately after use. Dried material can only be removed mechanically.

Limitations

- I.O. Zinc 211 is formulated for application to clean ferrous substrates and should not be used on rusty, corroded surfaces.
- I.O. Zinc 211 should not be applied over existing coatings or surfaces treated with phosphoric acid based rust removers.
- I.O. Zinc 211 should not be used on surfaces in contact with drinking water or exposed to soft water at temperatures above 60°C.
- I.O. Zinc 211 should not be overcoat with materials containing strong solvents such as chlorinated and aromatic hydrocarbons, esters and ethers.

Storage

I.O. Zinc 211 has a shelf life of 12 months if kept in a dry store between 5°C and 20°C in the original, unopened container.

Estimating

Supply

I.O. Zinc 211	:	1.9 liter tins
I.O. Zinc 211 Thinner	:	0.5 liter tins

Coverage

I.O. Zinc 211	:	16 m ² /litre as primer 8 m ² /litre as self-finish
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Storage

Shelf life

All products have a shelf life of 12 months if kept in a dry store between 5°C and 30°C in the original, unopened containers. If stored at high temperatures, the shelf life will be reduced.

Precautions

Health and safety

I.O. Zinc 211 and I.O. Zinc 211 Thinner should not come in contact with the skin and eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Some people are sensitive to resins, hardeners and solvents. Wear suitable gloves and eye protection. If working in a confined area, suitable respiratory protective equipment must be used. The use of barrier creams provides additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. DO NOT use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - DO NOT induce vomiting.

Fire

I.O. Zinc 211 and I.O. Zinc 211 Thinner are flammable. Keep away from sources of ignition. No smoking. In the event of fire, extinguish with CO₂ or foam. DO NOT use a water jet.

Flash points

I.O. Zinc 211	:	41°C
I.O. Zinc 211 Thinner	:	41°C

Additional Information

Cemkrete manufactures and supplies a wide range of those complementary products which includes:

- Waterproofing membranes & waterstops
- Joint sealants & filler boards
- Cementitious & epoxy grouts
- Specialized flooring materials
- Fireproof coating and systems
- Concrete admixture
- Repairing material

For further information on any of the above, please consult your local Cemkrete office - as below.

Important Note: Cemkrete warrants its materials free of manufacturing defects and produced as per standard specifications and sold under the terms and conditions of usages, whilst Cemkrete endeavors to ensure that any advice, recommendation, or information, given through its products literatures are reflects of the R&D in-house lab test and practical sites experience and knowledge based feed backs, however, the products are being used under various conditions and applied beyond its control where or how either directly or indirectly at various locations and places at a different stages that of an intended purposes and uses. Therefore, Cemkrete cannot hold warranty or responsible for resultant consequences, such as damages to the property or assets but the product itself.