

constructive solutions

Zinc rich cold galvanising coating

Uses

To provide galvanic protection to iron and steel. It can be used as a self-finish or as a durable rust inhibiting primer beneath selected top coats. It is recommended for the protection of structural steelwork, agricultural and construction plant and machinery, gates, railings, iron pipework and guttering, 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

Galvafroid zinc rich coating is formulated as an easily applied, cold galvanising protection against corrosion on all ferrous metals. Galvafroid has a mid-grey, matt finish.

Design criteria

Galvafroid 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, Galvafroid must be applied on the substrate at the coverage recommended.

Properties

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

Specification

The anticorrosive primer shall be Galvafroid, a 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

Galvafroid must be thoroughly stirred to give a uniform product prior to application. It is recommended that the contents are stirred periodically during application to avoid settlement.

Galvafroid is supplied at the correct consistency for direct application from the tin but, should it be found necessary to thin, only Galvafroid Thinner should be added, at a rate not exceeding 1 litre of thinner to 8 litres of Galvafroid.

Application

In order to obtain the protective properties of Galvafroid, it is important that the correct rate of application is achieved.

All prepared surfaces should be treated with one or more coats of Galvafroid. 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 Galvafroid when the previous coat is completely dry.

Overcoating

Although usable as a self-finish, it is recommended that Galvafroid be overcoated to protect from mechanical damage and chemical attack outside pH 5-9.

It is recommended that the Galvafroid coating be allowed to weather for at least 3 days before proceeding. Overcoating should take place with a non-saponifiable material, such as a solvent-based acrylic or chlorinated rubber material. Cellulose, bituminous, alkyd and water-based coatings are not suitable.

Cleaning

Galvafroid should be removed from tools and equipment with Galvafroid Thinner immediately after use. Dried material can only be removed mechanically.

Limitations

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

Estimating

Supply	
Galvafroid:	1.9 litre tins
Galvafroid Thinner:	0.5 litre tins
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Coverage

Galvafroid:

Important note

16 m²/litre as primer 8 m^2 /litre as self-finish

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Storage

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

Precautions

Health and safety

Galvafroid and Galvafroid 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. Incase 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

Galvafroid and Galvafroid Thinner are flammable. Keep away from sources of ignition. No smoking. In the event of fire, extinguish with CO_2 or foam. Do not use a water jet.

Flash points

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Galvafroid:	41°C
Galvafroid Thinner:	41°C

For further information, refer to the Product Safety Data Sheet.

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