



Expancote* Zinc Galvanize

Zinc rich cold galvanizing coating

Uses

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 recommended for the protection of structural steelwork, agricultural and construction plant and machinery, gates, railings, iron pipe work 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

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

Technical support

Expanchem Fospak offers a comprehensive range of high performance, high quality repair, maintenance and construction products. In addition, Expanchem Fospak offers a technical support service to specifiers, end-users and contractors as well as on-site technical assistance.

Design criteria

Expancote* Zinc Galvanize 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, Expancote* Zinc Galvanize must be applied on the substrate at the coverage recommended.

Properties

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| 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 Expancote* Zinc Galvanize, 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

Expancote* Zinc Galvanize 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.



CONSTRUCTION CHEMISTRY

Expancote* Zinc Galvanize is supplied at the correct consistency for direct application from the tin but, should it be found necessary to thin, only Expancote* Zinc Galvanize Thinner should be added, at a rate not exceeding 1 liter of thinner to 8 liters of Expancote* Zinc Galvanize.

Application

In order to obtain the protective properties of Expancote* Zinc Galvanize, 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 Expancote* Zinc Galvanize. 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 Expancote* Zinc Galvanize when the previous coat is completely dry.

Overcoating

Although usable as a self-finish, it is recommended that Expancote* Zinc Galvanize be over coated to protect from mechanical damage and chemical attack outside pH 5-9.

It is recommended that the Expancote* Zinc Galvanize 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

Expancote* Zinc Galvanize should be removed from tools and equipment with Expancote* Zinc Galvanize Thinner immediately after use. Dried material can only be removed mechanically.

Limitations

- Expancote* Zinc Galvanize is formulated for application to clean ferrous substrates and should not be used on rusty, corroded surfaces.
- Expancote* Zinc Galvanize should not be applied over existing coatings or surfaces treated with phosphoric acid based rust removers.

- Expancote* Zinc Galvanize should not be used on surfaces in contact with drinking water or exposed to soft water at temperatures above 60°C.
- Expancote* Zinc Galvanize should not be over coated with materials containing strong solvents such as chlorinated and aromatic hydrocarbons, esters and ethers.

Estimating

Supply

Expancote* Zinc Galvanize : 1 liters tin

Expancote* Zinc Galvanize Thinner : 0.5 liter tins

Coverage

Expancote* Zinc Galvanize : 16 m²/liter as primer
8m²/liter as self-finish

Precautions

Health and safety

Expancote* Zinc Galvanize and Expancote* Zinc Galvanize 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

Expancote* Zinc Galvanize and Expancote* Zinc Galvanize 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

Expancote* Zinc Galvanize : 41°C

Expancote* Zinc Galvanize Thinner : 41°C

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



CONSTRUCTION CHEMISTRY

* Denotes the trademark registered.

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