

ANCHOR SHIELD COLD GALVANISING



PAINTS OF DISTINCTION

Description

Anchor Shield cold galvanizing paint is a fast drying, high solids, high performance 100% epoxy zinc rich coating designed to protect steel against corrosion when exposed to severe corrosive environments, such as salt and water. It is ideal for all types of ferrous substrates and imparts corrosion resistance via sacrificial protection. The product contains 93% zinc in the dry film and at this level zinc to zinc particle contact is maintained and that the zinc is also in direct contact with iron. This configuration of zinc to zinc and zinc to iron in the presence of moisture stimulates a galvanic cell where zinc corrodes in preference to iron. The by products of corrosion of zinc are oxides of zinc namely zinc oxide, zinc carbonate and zinc sulphate all of which are inert compounds that become deposited on the upper surface of the coating thus protecting the underlying coating from further corrosion. It can be used to replace galvanized iron that has been damaged by welding.

Surface Preparation

For the zinc to be in direct contact with iron, the iron surface must be cleaned thoroughly and be free of any contaminants such as dust, wax, grease, oils and anti rust additives that are applied to metal by steel manufacturers to prevent corrosion. Remove all traces of rust by wire brushing or mechanical sander until sound metal surface is achieved. Wipe the surface clean with solvent and a rag to remove traces of iron filings that may have been generated during the sanding operation. Allow the surface to dry.

Do not use rust converter as the acid in the rust converter will react with the zinc dust rendering it inactive.

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Directions

Application: As zinc rich products develop pressure on storage, open the container carefully and wear the necessary protective clothing including gloves and eye protection. Apply the product under good ventilation particularly when welding to avoid breathing zinc fumes.

Stir the contents thoroughly with a broad flat stirrer or mechanical mixer to ensure even distribution of zinc throughout the paint. Stir occasionally during use. Apply by brush, roller or spray.

If brushing or rolling thin sufficiently to avoid brush marks or roller streaks, as a guide up to 5% Mineral Turps may be required depending on brush/roller type used and application conditions.

When spraying via air atomized guns thin up to 10% with Mineral Turps using nozzle orifice between 1.5 – 3 mm and nozzle pressure 30 – 50 psi. When spraying via airless spray gun thinning is not necessary but if required thin up to 5% with Mineral Turps using nozzle orifice between 0.46 – 0.53 mm and nozzle pressure 1700 psi.

It is best to apply at temperature in the range 15-30°C. Apply several light coats rather than one heavy coat.

Drying and Recoat:

Touch dry in 10 minutes and dry to handle in 30 minutes. Can be recoated after 1 hour at room temperature but allow longer drying during cold conditions or at temperatures below 15°C. The coating will cure in 14 days however full cure will be achieved within 6 weeks and this is due to the time taken for zinc to react with the metal surface. It does not require a topcoat but can be top coated with enamel, acrylic or epoxy topcoat.

Coverage:

Approximately 7 square meters per litre. Coverage is also dependent on film thickness, atmospheric conditions and application technique.

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Clean up:

Clean all equipment with Mineral Turps or General Purpose Thinners.

Technical data

Paint Type: 100% Epoxy Ester.
 Colour: Grey. Gloss: less than 5 on 60° head gloss meter.
 Volume Solids: 41%.
 Specific Gravity: 2.6. Heat resistance: Stable up to 160°C.
 Water Resistance: Excellent for splash resistance. Not recommended for submergence exposure.

At 2 coat application or 50 microns dry film thickness (120 microns wet) Anchor shield Cold Gal will provide a minimum of 8 years of service on exterior exposure. Higher film thickness will prolong longevity.

Anchor Shield Cold Gal will whiten during the early stages of service and this is due to the formation of insoluble oxides on the surface which serves to seal potential scratches and protect the underlying coating. This whitening will increase steadily until 15 months of exposure then it will stabilize.

Recoating at intervals will serve to repair damaged areas resulting from severe weather conditions and prolong coatings life.

Drying and Recoat:

Available in 250 ml, 500 ml, 1 litre and 4 litre

Storage/Shelf Life

Store away from sources of ignition, naked flames and direct path of sun and preferably in temperatures range 15°C to 30°C. When stored as specified the product has shelf life of two (2) years minimum.

Health & Safety

Highly flammable - do not use near fire or open flame. Store in a cool place and out of direct path of the sun. Keep containers tightly sealed when not in use. Keep Out Of Reach Of Children - If swallowed seek medical advice immediately or contact the Poisons Information Center on 13 11 26.

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Spills and leaks can be contained with absorbent material such as sand, earth or saw dust. Dispose of waste products thoughtfully or through Chemical Waste Disposal Authority. Material Safety Data Sheet is available upon request.

Intentional misuse by deliberately inhaling contents can be harmful or fatal. Avoid breathing of vapor and mist. Provide adequate ventilation when spraying in confined spaces. Avoid contact with eyes and skin.

Disclaimer

CW Brands Pty Ltd believes that the information in this technical data sheet is an accurate description of the typical uses of the product. The data and statements are based on our research and development work and is to the best of our knowledge true and accurate. The user must ensure of the product(s) in their application prior to use in particular to determine its performance, efficiency and safety. The use of this product is beyond the manufacturer's control, and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect usage. Products conform solely to the information contained in this and other related CW Brands Pty Ltd publications. CW Brands Pty Ltd reserves the right to make changes to specifications and information related to the products at any time. Users are asked to check that the literature in their possession is the latest issue. Statements contained herein should not be considered as a warranty of any kind, expressed or implied in describing the performance or suitability of the product for a particular application. No liability is accepted for infringement of any patents or any other intellectual property right.