

PRODUCT DESCRIPTION

THINTECH COLD GALVANIZED PAINT is a single component, organic, zinc-rich coating containing 90% by weight of zinc dust pigment in the dried film.

DESIGN FEATURES

- Formulated with 99% pure zinc dust
- A tough, hard film which serves as a single protective coating in mild corrosive environments.
- Provides cathodic protection to the steel via cold galvanization
- Insoluble zinc salts formed in the film make resistant to the passage of moisture.
- Simulates the protection of steel provides by galvanizing.
- Easy field use for touch-up work.
- Can be used untopcoated for immersion service
- Exhibits "self-healing" properties when the film is damaged.
- Dry heat resistance: 300°F (149°C)
- For use over properly prepared blasted steel exposed to: fresh water, salt water, brackish water and chemical fumes.
- Topcoating recommended for maximum protection.
- Excellent for field touch-up of damaged galvanised or zinc rich primers.

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PHYSICAL CHARACTERISTICS

Recommended Application Data

Wet [µm]	Dry [µm]	m^2/l
134	75	7.4

Theoretical Coverage

7.4 m^2/l

Volume Solids

56% (based on ASTM D2697)

Dry Film Thickness Range

60 µm to 90 µm

Flash Point

42 °C

Finish

Matt

Colour Range

Grey

Standard Packing Size

400 ml

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APPLICATION METHOD

AIRLESS SPRAY

Recommended method of application

Tip Size: 0.43 – 0.58 mm (17 –23 thou)

Pressure: 110 –160 kg/cm² (1600 – 2300 psi)

Use an inbound pressure approximately 10 psi above the level at which "pig-tails" occur. Hose length should be limited to not more than 20 metres.

CONVENTIONAL AIR SPRAY

May be used. Use the lowest air pressure that will achieve good atomisation in order to minimise over-spray. The spray gun should be held about 8 inches (i.e. 20cm) from the surface, using a 6 to 8 inch (i.e. 15 – 20cm) spray fan.

USEFUL INFORMATION

THINNER

RT 7- 25 (Maximum 10% addition)

CLEANER

RT 7- 77

STORAGE

Store in a cool dry shaded area.

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DRYING & CURING TIME

Substrate Temperature	Touch Dry	Hard Dry	Overcoating Interval Minimum*	Overcoating Interval Maximum
15 °C	35 minutes	2½ hours	24 hours	Indefinite
25 °C	15 minutes	1 hour	16 hours	Indefinite
35 °C	10 minutes	30 minutes	10 hours	Indefinite

* The overcoating times given in the table are for a relative humidity level above 70%. Below 65% relative humidity, the overcoating intervals need to be doubled, i.e. 20 hours at 35°C.

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SURFACE PREPARATION

The service life span and the service performance of THINTECH COLD GALVANIZED PAINT is directly related to the degree of surface preparation.

- Remove all wax, oil and grease by solvent cleaning in accordance with the guidelines given by SSPC-SP1. Where necessary removes weld spatter and round off all rough weld seams and sharp edges to a smooth surface.
- For steel, abrasive blast clean to a minimum standard of Sa2 or SSPC-SP6. For optimum performance, a blast to of Sa2½ (ISO 8501-1:1988) or SSPC-SP10 is recommended. An average surface profile of 50 microns is acceptable.
- For Galvanizing, blast clean to minimum standard of Sa1 or SSPC-SP-7
- Ensure that all surface defects detected after blast cleaning is ground, filled or treated in a suitable manner.
- After blasting, remove dust from the surface. Ensure that the surface to be coated is clean, dry and free from any contaminants.
- Apply Thintech Cold Galvanized Paint immediately after blasting to avoid oxidation and recontamination of the steel surface. In case of oxidation or recontamination, re-blast to the required standard.

To avoid condensation of moisture onto substrate prior to coating application, relative humidity should not exceed 85% and substrate temperature should be more than 3°C above Dew Point.

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TYPICAL COATING SPECIFICATION

Substrate Surface	Priming	2nd Coat
STEEL Abrasive Blasted - Sa 2½ to Sa2	Thintech Cold Galvanized Paint	ThinTech MCU Shield Top Coat
GALVANIZING Blast clean to Sa1	Thintech Cold Galvanized Paint	ThinTech MCU Shield Top Coat

NOTES

- The coating specifications given above are typical. For specific recommendations to suit individual applications, please refer to your Royalton Coating Paints representative.
- This product requires moisture in the atmosphere to cure. It will not cure completely or adequately if the Relative Humidity falls below 50%. In such cases, a steam or water spray may be required to complete cure.
- Do not exceed 120 microns dried film thickness to avoid mud-cracking phenomenon.

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SAFETY PRECAUTION

Personal Protection

Avoid contact with eyes and skin. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use barrier cream.

This product contains low flash point solvents, do not use in poorly ventilated areas especially in confined tank interiors.

Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe in vapour or spray mist.

Fire & Handling

This product is flammable. Keep away from sources of ignition. Do not smoke.

Take precautionary measures against static discharge.

In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.

FIRST AID

Eyes

In the event of accidental splashes, flush eyes with warm water immediately and seek medical advice.

Skin

Wash skin thoroughly with soap and water or approved industrial cleaner. Do Not Use solvents or thinners.

Inhalation

Remove to fresh air, loosen collar and keep patient rested.

Ingestion

In case of accidental ingestion, DO NOT INDUCE VOMITING. Obtain immediate medical attention.

For further safety information, please refer to our **Material Safety Data Sheet (MSDS)**

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DISCLAIMER

The information provided on this data sheet is not intended to be complete and is provided as general advice only. It is the responsibility of the user to ensure that the product is suitable for the purpose for which he wishes to use it. As we have no control over the treatment of the product, the standard of surface preparation of the substrate, or other factors affecting the use of this product.

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