COLD GALVANIZED PAINT

DESCRIPTION

ThinTech Cold Galvanized Paint is a single-component, organic, zinc-rich coating containing 90% zinc dust pigment by weight in the dried film.

DESIGN FEATURES

- Formulated with 99% pure zinc dust.
- A tough, hard film that serves as a single protective coating in mildly corrosive environments.
- Provides cathodic protection to steel through cold galvanization.
- Insoluble zinc salts formed in the film resist the passage of moisture.
- Simulates the protection provided to steel by galvanizing.
- Easy field use for touch-up work.
- Can be used without a topcoat 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 is recommended for maximum protection.
- Excellent for field touch-up of damaged galvanized surfaces or zinc-rich primers.



Cold Galvanized Paint
Zinc-rich protective coating

For more information:
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SURFACE PREPARATION

The service life and performance of ThinTech Cold Galvanized Paint are directly related to the degree of surface preparation.

- Remove all wax, oil and grease by solvent cleaning in accordance with SSPC-SP1. Where necessary, remove weld spatter and smooth rough weld seams and sharp edges.
- For steel, abrasive blast to a minimum of Sa2 or SSPC-SP6. For optimum performance, Sa2½ (ISO 8501-1:1988) or SSPC-SP10 is recommended. An average surface profile of 50 microns is acceptable.
- For galvanized surfaces, blast clean to a minimum of Sa1 or SSPC-SP7.
- Grind, fill or treat all surface defects detected after blast cleaning.
- After blasting, remove dust. Ensure the surface is clean, dry and free of contaminants.
- Apply ThinTech Cold Galvanized Paint immediately after blasting to avoid oxidation and recontamination. If oxidation or recontamination occurs, re-blast to the required standard.
- To avoid condensation before coating, relative humidity should not exceed 85%, and substrate temperature should be more than 3°C above the dew point.

TYPICAL COATING SPECIFICATION

Substrate / Surface Preparation	Priming	Second Coat
Steel Abrasive blasted: Sa2½ to Sa2	ThinTech Cold Galvanized Paint	ThinTech MCU Shield Top Coat
Galvanized surfaces Blast clean: Sa1	ThinTech Cold Galvanized Paint	ThinTech MCU Shield Top Coat

NOTES

These coating specifications are typical. For recommendations suited to an individual application, contact your ThinTech Coatings representative.

The product requires atmospheric moisture to cure. It will not cure completely or adequately when relative humidity is below 50%. In such cases, a steam or water spray may be required to complete curing.

Do not exceed 120 microns dry film thickness, to avoid mud cracking.

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. Limit hose length to no more than 20 metres.

Conventional Air Spray

May be used. Use the lowest air pressure that achieves good atomization to minimize overspray. Hold the spray gun about 8 inches (20 cm) from the surface, using a 6-8 inch (15-20 cm) spray fan.

USEFUL INFORMATION

Item	Information
Thinner	Contact ThinTech Coatings. Maximum 10% addition.
Cleaner	Contact ThinTech Coatings.
Storage	Store in a cool, dry, shaded area.

TECHNICAL DATA

Physical Characteristic	Value
Theoretical coverage	7.4 m²/L
Volume solids	56% (ASTM D2697)
Dry film thickness range	60-90 µm
Flash point	42°C
Finish	Matt
Colour	Grey
Standard packing size	400 ml

RECOMMENDED APPLICATION DATA

Wet Film Thickness	Dry Film Thickness	Theoretical Coverage
134 µm	75 µm	7.4 m²/L

DRYING & CURING TIME

Substrate Temperature	Touch Dry	Hard Dry	Minimum Overcoating Interval*	Maximum Overcoating Interval
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

* Overcoating times apply at relative humidity above 70%. Below 65% relative humidity, double the overcoating intervals; for example, 20 hours at 35°C.

SAFETY PRECAUTIONS

Personal Protection

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

This product contains low-flash-point solvents. Do not use in poorly ventilated areas, especially confined tank interiors. Ensure adequate ventilation during application. Do not breathe vapour or spray mist.

Fire & Handling

This product is flammable. Keep away from ignition sources. Do not smoke. Take precautions against static discharge. In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.

FIRST AID

Exposure	Action
Eyes	In the event of accidental splashes, immediately flush eyes with warm water and seek medical advice.
Skin	Wash thoroughly with soap and water or an approved industrial cleaner. Do not use solvents or thinners.
Inhalation	Move to fresh air, loosen the collar and keep the patient rested.
Ingestion	Do not induce vomiting. Obtain immediate medical attention.

For further safety information, refer to the Material Safety Data Sheet (MSDS).

DISCLAIMER

The information in this data sheet is not intended to be complete and is provided as general advice only. Users are responsible for ensuring that the product is suitable for their intended purpose. ThinTech Coatings has no control over the treatment of the product, the standard of substrate surface preparation, or other factors affecting its use.