



ZINCODIC 80

**CATHODIC GALVANIZING AND
RUST PREVENTION SYSTEM**

99,95% PURE ZINC - LEAD FREE

READY TO USE – SINGLE-COMPONENT

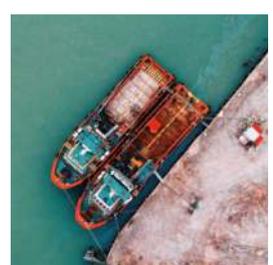
GENERAL INFORMATION

- Identical life span and performance as hot dip galvanizing
- Used as a stand-alone galvanizing
- Restores cathodic protection to end of life hot dip galvanizing or Zincodic coatings
- Can be used as a primer in Duplex Coating systems
- Excellent protection against coastal salts and salt water immersion
- Excellent impact resistance and flexibility
- Withstands pH between 5,5 and 12,5
- Can be applied to all types of metal
- Wet on Wet application

****For more detailed information refer to our technical data sheet****

APPLICATION

Marine, Military, Bridges, Boats, Barges, Ships, Quays, Piling, Gangways, Dams, Tanks, Silos, Factories, Buildings, Trucks, Trailers, Steel structures, Pipes and pipelines, Airports, Bulk storage tanks, Shipping containers, Petrochemical plants, Fertilizer plants, Roofing.





ZINCODIC® Technical Data Sheet

General Information

Zincodic ® is an active cathodic protective one component zinc rich coating.
 Zincodic ® can be applied by brush, roller, airless, electrostatic or gravity fed spraying technique.
 Zincodic ® lifetime expectation is equal to hot dip galvanizing.
 Zincodic ® can be duplex coated with a compatible topcoat

Characteristics

Zinc quantity : 88% (+- 2) weight, of pure zinc in the dry film layer. (DFT)
 Zinc purity : Approximately 99.995% pure.
 Ready for use : One component ORGANIC zinc rich coating.
 Security : Non-toxic and non-flamable when dry.
 Specific gravity : 2.56 kg/dm³ +-0.1.
 VOC (Solvents) : 272 grams/litre +- 5.
 Colour : Grey - RAL 7005

Properties

Can be used as a primer or as a Stand Alone Galvanizing top coat.
 Can rejuvenate hot dip galvanizing or previously coated Zincodic ® coatings.
 High resistance to corrosion, abrasion and impact.

Duplex system	Zincodic ® can be over coated with compatible paints *, after 24 hours but before 60 hours after the final coating.
Application range	As a primer 40 to 80 micron DFT or as a 2-layer system up to 375 micron
Resistance to cold/heat	From - 40°C to + 300°C.
Application temperature	From - 10°C to + 40°C (curing times will differ with temperature) **
Substrate temperature	Minimum 3°C above dew point.
Application humidity	Less than 80%.
Practical coverage	Approximately 27.9 square metres at 75 micron DFT.
Resistance to acids/alkaline	Can tolerate a PH range of 5.5 up to 12.5.
High plasticity	No cracking - Allows for expansion and bending of metal.
UV	High resistance to UV - Little impact
Weld ability	A 40 micron coat can be welded without affecting the welded joint (X-Ray)
Life expectancy	Identical to hot dip galvanizing of the same DFT
Life expectancy duplex	2.5 times depending on thickness of the duplex layer.
Conductivity	Conductivity of the dry film - good.
Salt spray 5% solution	ASTM B117 (2000 Hrs) SGS London. ISO 17025 accredited
Bending/Flexibility	ASTM D-522
Impact	ASTM D2794
Abrasion	ASTM D4060-14
Salt water immersion	ASTM G44 (90 days)
Chemical resistance	30 day immersion
Mixing	Mix for 3-4 min with a spiral paint mixer at slow speed until uniformly mixed
Solvent	If required add 2% to 4% of Zincsol. Depending on application methodology
Opening of Pail	Use a 75mm stiff scraper tapping gently upward working your way around the lid until it pops ***

*Paints: Most solvent or water based paint systems can be used

** Can increase to 60°C, ask for technical assistance.

*** Never use a screw driver.



DFT Application Guide

Dry Film to Reach		Coverage / 12 kg		<i>Evaluation of the loss to be calculated by the estimator</i>
Dry μ	Dry mils	Metres ²	Feet ²	
25 μ	1.0 mil	83.6	900	* These calculations are based on smooth and flat surfaces. * Blasting profile or surface roughness is not evaluated. * The actual protection begins after reaching the peaks of the material background roughness.
50 μ	2.0 mil	41.8	450	
75 μ	3.0 mil	27.9	300	
100 μ * 2 coats	4.0 mil * 2 coats	21.0	225	
				<i>For estimators and applicators see the calculation</i>
				<u>Example</u>
125 μ * 2 coats	5.0 mil * 2 coats	16.7	180	A) 100m ² (1076.39 ft ²) B) The protocol requires a 125 μ (5.0 mil) coating C) Evaluate the job to be coated. eg. fence, steel wall, piping, beams, angle iron etc. Estimate a percentage wastage (loss) according to your evaluation.
150 μ * 2-3 coats	6.0 mil * 2-3 coats	14.0	150	
175 μ * 2 coats	7.0 mil * 2-3 coats	12.0	128	
200 μ * 2-3 coats	7.0 mil * 2-3 coats	10.5	112	
				<i>Calculations</i>
				<u>Step 1:</u>
225 μ * 2-3 coats	9.0 mil * 2-3 coats	9.3	100	Area \div Square metre dry film coverage per pail (see the table on the left) 100 m ² \div 16.7 m ² (16.7m ² coverage / pail @ 125 μ DFT) 100 \div 16.7 = 5.98 pails (roundup to 6 pails)
250 μ *3-4 coats	10.0 mil * 3-4 coats	8.4	90	
				<u>Step 2:</u> If loss is estimated at 10%
275 μ * 3-4 coats	11.0 mil * 3-4 coats	7.6	82	6 pails + 10% = 6.6 pails. Roundup to 7 pails
300 μ * 4-5 coats	12.0 mil * 4-5 coats	7.0	75	* Coat can be applied wet on wet if coated by spraying
325 μ * 4-5 coats	13.0 mil * 4-5 coats	6.4	69	0.001 = 1.0 mil of an inch = 25 μ (microns)
350 μ * 4-5 coats	14.0 mil * 4-5 coats	6.0	64	In case of doubt, don't hesitate to contact our technical support division.
375 μ * 4-5 coats	15.0 mil * 4-5 coats	5.5	60	



Zincodic (Pty) Ltd
 Charles Joubert
charles@zincodic.co.za
www.zincodic.co.za