



# BERGER **Protecton** PROTECTIVE COATINGS

## Zinc Anode 304 MZS Inorganic Zinc Silicate Coating

### USES

Recommended for use on steel structurals, exterior of storage tanks, bulk handling equipment, pipelines, etc. The product is suitable for both coastal and industrial/inland environments.

### SCOPE

A two pack solvent base inorganic zinc primer for protection of steel against severe corrosive environment . It provides outstanding cathodic protection and forms a tough abrasion resistant film. It is however, not recommended for contacts with strong acids or alkalis of pH below 5 or exceeding 10. The coating attains water resistance within 30 minutes of application and is unaffected by rain, condensation or dew.

### PRODUCT DATA

**Type :** Two pack, self cured

**Composition :** Ethyl Silicate/Metallic Zinc

**Mixing Ratio :** Part A: Part B; 17.6 ltr: 2.4 ltr

**Pot Life :** 6-8 hours

**Application :** Conventional or Airless spray

**Recommended DFT :** 60-75 microns per coat

**Corresponding WFT :** 100-125 microns per coat

**Theoretical Spreading Rate :** 8.0-10.0 Sq.Mtr/Ltr

**Drying Time :**

TOUCH : within 30 minutes

HANDLE : 2-4 hours

HARD : Overnight

**Curing Time :** 6-7 days

**Overcoating Interval :**

MIN : Overnight

MAX : Indefinite

**Flash Point :** Above 22°C

**Colour :** Grey

**Finish :** Matt

**Packing :** 20 Ltrs (mixed paint)

**Thinner/Cleaner :** Thinner 870

**Storage Life :** Upto six months as long as the sealed containers are kept under cover in a dry place under normal temperature conditions.

### RESISTANCE GUIDE

**Chemical Resistance :**

EXPOSURES	SPLASH & SPILLAGE	MILD FUMES / OUTDOOR RESISTANCE
Acids	Good	Good
Alkalis	Good	Good
Solvents	Excellent	Excellent
Salt	Excellent	Excellent
Water	Excellent	Excellent

**Temperature Resistance :**

Continuous : upto 400° C

Intermittent : 426°C

**Weatherability :** Excellent

**Flexibility :** Fair

**Abrasion Resistance :** Excellent - increases with age

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**SURFACE PREPARATION**

Remove grease, oil and other contaminants and blast clean to a minimum of Sa 2.5 Swedish Standard SIS 05 5900 with a surface profile not exceeding 35-40 microns.

The surface should be clean and dry before application of Zinc Anode 304 MZS

**APPLICATION**

Stir Part A thoroughly to uniform consistency. Mix the components in the recommended proportion with constant stirring preferably with a mechanical stirrer. Continue stirring until the components are thoroughly mixed. Strain the mixture through a 80 mesh sieve. Allow the mixture to mature for 15-20 minutes before application. Stir again before use and continuously during application.

**Conventional Spray:** Add upto 10% Thinner 870 depending on conditions. Use any standard pressure pot equipment at an atomising pressure of 3.5-4.4 kg/cm<sup>2</sup>

**Airless Spray :** Apply preferably without thinning. However, add upto 10% Thinner 870 depending on conditions. Use any standard equipment having pump ratio 30 : 1. Tip size 0.38 – 0.48 mm. Tip pressure 110 –160 Kg/cm<sup>2</sup>.

**TYPICAL PAINTING SPECIFICATIONS**

Surface	1st Coat	2nd Coat	3rd Coat	4th Coat
Steel	Zinc Anode 304 MZS	Epilux 4 HB MIO	Epilux 4 CR Enl or Epilux 155 HB or Epilux 89 HB	Epilux 4 CR Enl. or Epilux 155 HB or Epilux 89 HB
Steel	Zinc Anode 304 MZS	Epilux 610 Primer	Epilux 5 CTE or Epilux 555 CTE HB	Epilux 5 CTE or Epilux 555 CTE HB
Steel	Zinc Anode 304 MZS	Berger Epoxy PU HB or Bergerthane Enl	Berger Epoxy PU HB or Bergerthane Enl	
Steel	Zinc Anode 304 MZS	Lumeros HR/47 or Silicone Acrylic HR Ctg	Lumeros HR/47 or Silicone Acrylic HB Coating	

**Overcoating of Zinc Anode 304 MZS:** The surface must be fully cured and free from residual solvent prior to overcoating. This normally takes 10-12 hours but under conditions here humidity is below 80%, the time taken may be longer. While overcoating a mist coat should first be applied to avoid bubbling due to air entrapment.

**Notes :**

1. Use off the mixed paint within the stipulated pot life period.
2. Both components are also available in liquid form for ease of application.
3. The product cures by reaction with moisture and may be applied at high humidity levels provided the blasted surface is free from condensation and meets the requirement of Sa 2.5 Swedish Standard
4. Brush and spray equipment should be cleaned with Thinner 870 otherwise equipment is liable to be damaged
5. At lower relative humidity, drying and curing are likely to be extended.
6. Damaged areas can be touched up with Epilux 4 Zinc Rich Primer

**Health & Safety :** Please refer to the separate Safety Data Sheet available with detailed information.

**DISCLAIMER**

The information contained within this Data Sheet is based on information believed to be reliable at the time of its preparation. The Company will not be liable for loss or damage howsoever caused including liability for negligence, which may be suffered by the user of the data contained herein. It is the users' responsibility to conduct all necessary tests to confirm the suitability of any product or system for their intended use. No guarantee of results is implied since conditions of use are beyond our control.

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