BERGER Protecton PROTECTIVE COATINGS

Zinc Anode 304 MZ

USES

Recommended for use on steel structures, bridges, exterior of storage tanks, bulk handling equipments pipelines, etc.

SCOPE

A two pack solvent based inorganic zinc silicate 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 coatings attains water resistance within 30 minutes of application and is unaffected by rain, condensation or dew.
Complies with the composition and performance requirement of SSPC paint 20 level 2 requirement; available in ASTM D 520, Type-II zinc dust version also.

PRODUCT DATA

Type : Two Pack self cured

Composition : Ethly Silicate/ Metallic Zinc

Volume Solids: 60 ± 2%

Mixing Ratio : A:B - by volume as per supplied pack

Pot Life : 4 - 6 hours

Application : Pressure pot with stirrer or Airless Spray

Recommended DFT : 65 - 75 μ per coat

Theoretical Spreading Rate : 8.0 - 9.2 m^2 / ltr.

Drying Time : @ 25^{0}C, 50% RH

TOUCH	: within 30 mins.
HANDLE	: 2 - 4 hours
HARD	:16 hours

Curing Time : 6-7 days

Overcoating Interval :

MIN	: 16 hours
MAX	: 3 months

Flash Point : Above 16º C

Colour : Grey

Finish : Matt

Packing : 20 Ltrs

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 : When suitably top coated

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

Temperature Resistance :

Continuous	: upto 400º C
Intermittent	: upto 426º C

Weatherability : Excellent

Flexibility : Fair

Abrasion Resistance : Increases with age

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SURFACE PREPARATION

Mild Steel: Remove grease, oil and other contaminants preferably by using Solvent Cleaning as per SSPC SP1. Abrasive Blast clean to a minimum SSPC SP10. For severe corrosive conditions, blast clean to SSPC SP5 with a surface profile not exceeding 55 microns. Special care must be taken on weld areas to remove flux and spatter; welds should be ground back to avoid pockets. The cleaned surface should be clean and dry and coated before it gets contaminated.

APPLICATION

Stir Liquid Portion thoroughly to uniform consistency. Mix the components in the recommended portion with constant stirring properly. 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 continously during application
Conventional Spray: Add upto 10% Thinner 870 depending on conditions. Use any standard equipment at an atomising pressure of 3.5 - 4.0 kg/cm^2.
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 – 0.53 mm. Tip pressure 110 –130 Kg/cm^2.

TYPICAL PAINTING SPECIFICATIONS

Surface	1st Coat	2nd Coat	3rd Coat	4th Coat
Steel	Zinc Anode 304 MZ	Epilux 4 HB MIO/ Epilux 155 HB MIO	Epilux 155 HB or Epilux 89 HB	Epilux 155 HB or Epilux 89 HB
-do-	Zinc Anode 304 MZ	Epilux 455 HB MIO	Bergerthane PU	Bergerthane PU
-do-	Zinc Anode 304 MZ	Lumeros HR	Lumeros HR	
-do-	Zinc Anode 304 MZ	Epilux 78 HBTL	Epilux 78 HBTL	

Overcoating of Zinc Anode 304 MZ : The surface must be fully cured and free from residual solvent prior to overcoating. This normally takes 10-12 hours but under conditions if 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 appiled at high humidity levels provided the blasted surface is free from condensation and flash rust.
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 Epiulx 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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