

## BMA ZINCOPOXY PRIMER

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*Code: BMA-ZRP071*

*Code of the hardener: BMA-HPE830*

*Color: Lead Grey*

### PROPERTIES

A cold galvanize organic zinc rich epoxy primer, high solids, very high zinc dust containing product (99% of zinc in total pigments). It conforms to the compositional requirements of SSPC paint 20. It is an excellent barrier against corrosion to be used as primer in highly corrosive environments.

### RECOMMENDED USES

BMA Zincopoxy Primer can be used for:

- ✓ Offshore environments
- ✓ Chemical, petroleum and power plants
- ✓ Refineries, mining equipment and pipelines
- ✓ Bridges
- ✓ Buildings
- ✓ General structural steel

### PERFORMANCE BENEFITS

- ✓ Excellent corrosion protection
- ✓ Good chemical, heat, salt water and abrasion resistance
- ✓ Withstanding impact resistance and good flexibility
- ✓ High durability
- ✓ Quick drying and easily recoatable

## CHARACTERISTIC PHYSICO-CHEMICAL DATA

Data corresponding to BMA Zincopoxy Primer ZRP071 cross-linked with its Hardener HPE830.

Tests	Norms	Results
Total solids, by weight	ASTM D2369	82%
Total solids, by volume	ISO 3233	50%
Specific Gravity (g/cm <sup>3</sup> )	ASTM D1475	2.6
Total Volatile Organic Compound (VOC)	ASTM D3960	454g/L
Zinc Dust in total solid content	ASTM D2369	70%
Spreading Rate at 80µm DFT <sup>(1)</sup>	-	6.3 m <sup>2</sup> /L
Recommended DFT <sup>(1)</sup> (µm)	-	70-80
Recommended WFT <sup>(2)</sup> (µm)	-	140-160

<sup>1)</sup> DFT: Dry Film Thickness

<sup>2)</sup> WFT: Wet Film Thickness

## APPLICATIONS GUIDE

### Surface Preparation

Before applying BMA Zincopoxy Primer, all necessary pretreatment must be done. Surface should be clean, dry and free of all contaminants (oils, agents, dust, dirt, etc...) in order to avoid the risk of surface failing.

#### **Metal surfaces:**

For new steel, clean the surface from any oil or grease residues using 1 L of EKSEN KIMYA DL50 dissolved in 10 L of water. Sand the substrate to SA 2.5 until smoothing then remove all sanding dust and let it dry before any primer application.

For painted steel, remove loose and peeling paint using mechanical methods such as sanding and sandblasting of the entire surface until smoothing so the new coating can adhere properly. When the old paint is compatible with the new one, only light sanding is required. Then, remove persistent dirt and sanding residues with a detergent solution.

For non-ferrous metal (galvanized steel, aluminum, stainless steel, etc...), use a thin layer of BMA Wash Primer BMA-WPU in order to etch the substrate, remove any corrosion residues and promote adhesion to the subsequently applied coatings. In case of unweathered surface or when weathering is not possible, apply a sweep or brush blast cleaning using a non-metallic abrasive in order to lightly roughen the surface. Let the surface dry before coating application.

## Mixing

Pour components of BMA Zincopoxy Primer ZRP071 into a larger container, add 25% by volume of its hardener (HPE830) and mix them properly. Apply the mixture within its pot life (4 hours).

## Thinning

If thinning is necessary, a maximum of 5% (for brush or roller application) and 10% (for airless spraying system) of BMA Thinner Epoxy (BMA-THI130) could be added in order to obtain the required viscosity of the mixture.

## Application

BMA Zincopoxy Primer should be applied in a ventilated area where the humidity does not exceed 75%, nor in sunny days on hot substrates. The required temperature for optimum performance is between 5°C and 35°C.

BMA Zincopoxy must be applied on a clean and dry surface using a brush, roller or airless spraying system.

Over coating of BMA Zincopoxy could be done using a layer of:

- BMA High Build Intermediopoxy BMA-HBI cross-linked with 25% of BMA Hardener BMA-HPE815,
- BMA Enamopoxy BMA-SEE cross-linked with 25% of BMA Hardener BMA-HPE800,

For outdoor application, the substrate must be top coated with BMA PU Acrylic Paint.

## Drying Time

Surface (Touch) dry: 30 min

Dry to over coat: 8 hours

Full cured: 1 week

## AVAILABLE PACKAGING

1 US Gallon Kit = 3.786 L + 0.95 L; 5 US Gallons Pail Kit = 18.9 L + 4.73 L

## SHELF LIFE

BMA Zincopoxy should be stored indoors in the original, unopened and undamaged container, in a dry place at a temperature not exceeding 35°C.

Under these conditions, the shelf life of BMA Zincopoxy will be 2 years and 9 months for its hardener HPE830.

After this period, the paint quality is subjected to re-inspection. Proper handling is essential to maintain good quality.

## HEALTH & SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for complete information on Hazards Identification, First-Aid and Fire-Fighting Measures, Accidental Release Measures, Handling and Storage, Exposure Control and Personal Protection, Stability and Reactivity, Toxicological Information, and Transport Information.

## QUALITY ASSURANCE

BMA Commercial & Industrial s.a.l is a holder of the ISO 9001:2015 and ISO 45001:2018 certificates, which guarantees that all operations are conducted in compliance with International Standards.

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