

BMA ZINC PHOSPHATE PRIMER

Code: BMA-ANY

Color: Red Oxide

PROPERTIES

A modified zinc phosphate alkyd-based primer which guarantees rust inhibition and a maximum protection to the surface against corrosion effect. It is formulated for indoor and outdoor application and can be applied over a wide range of metallic substrates in commercial, residential and industrial locations.

RECOMMENDED USES

BMA Zinc Phosphate primer could be used on metallic substrates for:

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

PERFORMANCE BENEFITS

- ✓ An extreme rustproofing capacity
- ✓ Protection against weathering conditions
- ✓ Good adhesion to the surface
- ✓ Withstanding impact resistance and good flexibility
- ✓ Short drying time
- ✓ Easy sandability

CHARACTERISTIC PHYSICO-CHEMICAL DATA

Data corresponding to **BMA Zinc Phosphate Primer**, Red oxide color

Tests	Norms	Results
Total solids, by weight	ASTM D2369	67.25 %
Total Solids, by volume	ISO 3233	56.5 %
Total pigments, by weight	ASTM D2372	47.39 %
Consistency, at 25 °C	ASTM D562	20 P
Specific Gravity (g/cm ³)	ASTM D1475	1.527
Total Volatile Organic Compound (VOC)	ASTM D3960	343.44 g/L
Spreading Rate at 35 µm DFT ⁽¹⁾	-	16.1 m ² /L
Recommended WFT ⁽²⁾ at 10%	-	68 µm

¹⁾ DFT: Dry Film Thickness

²⁾ WFT: Wet Film Thickness

APPLICATIONS GUIDE

Surface Preparation

Before applying BMA Zinc Phosphate 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.

For new steel, clean the surface from any oil or grease residues using a solution (1:10) of Eksen Kimya (1 L of EKSEN KIMYA DL50 dissolved in 10 L of water). Sand the substrate to Sa 2½ 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, iron, etc...), use 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.

Thinning

If thinning is necessary, a maximum of 10% (for brush or roller application) and 20% (for airless spraying system) of BMA Thinner Super (BMA-THI010) or White Spirit could be added in order to obtain the required viscosity of the mixture.

Application

BMA Zinc Phosphate Primer should be applied in a ventilated area where the humidity does not exceed 85%, nor in sunny days on hot substrates. The required temperature for optimum performance is between 5°C and 40°C.

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

Drying Time

Surface (Touch) dry: 30 minutes

Dry to over coat: 4 hours

Hard dry: 6 hours

AVAILABLE PACKAGING

Kilo; US Gallon = 3.786 L; Pail = 20 L

SHELF LIFE

BMA Zinc Phosphate Primer should be stored in closed and undamaged containers in a well-ventilated area where the humidity does not exceed 85% and at a maximum temperature of 40°C.

Under these conditions, the shelf life of BMA Zinc Phosphate will be 2 years. After this period, the product quality is subjected to re-inspection.

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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IMPORTANT: The statements, technical information and recommendations contained herein are believed to be accurate. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, BMA Commercial & Industrial s.a.l expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.