

# BMA Marino-Enamopoxy

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*Code: BMA-MEE*

*Code of the hardener: BMA-HPE800*

*Color: Catalogue Colors*

## PROPERTIES

A two component solvent based Enamopoxy, specially designed for marine application to provide a protective coating against deteriorative corrosion impact. With its excellent adhesion, high strength, chemical, humidity, and weather resistance, BMA Marino-Enamopoxy can be applied on any type of steel or concrete substrate without risk of cracking and failure. For better protection and maximal performance, two coats of BMA Marino-Enamopoxy can be applied over the protected surface.

## RECOMMENDED USES

BMA Marino-Enamopoxy can be used for:

- ✓ Concrete floors
- ✓ Water and fuel tanks
- ✓ Boats and ships
- ✓ Marine equipment

## PERFORMANCE BENEFITS

- ✓ Corrosion protection
- ✓ Adhesion to the surface
- ✓ Chemical, moisture and weathering resistance
- ✓ Abrasion and scratching resistance
- ✓ Withstanding heavy duties
- ✓ Easy cleanability and fast drying ability

## CHARACTERISTIC PHYSICO-CHEMICAL DATA

**Material Analysis of Marino-Enamopoxy (Part A) cross linked with Hardener BMA-HPE800 (Part B): (A+B):**

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Tests	Norms	Results
Total solids, by weight	ASTM D2369	70%
Total solids, by volume	ISO 3233	58.8%
Specific Gravity (g/cm <sup>3</sup> )	ASTM D1475	1.295
Viscosity, at 25°C ( <b>Part A</b> )	ASTM D562	10 Poises
Total volatile organic compound (VOC)	ASTM D3960	386.36 g/L
Flash Point	ASTM D3278	20°C
Spreading Rate at 40 µm DFT <sup>(1)</sup>	-	14.7m <sup>2</sup> /L
Recommended WFT <sup>(1)</sup> @10%	-	75 µm

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

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

## APPLICATIONS GUIDE

### Surface Preparation

Before applying BMA Marino-Enamopoxy, 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 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.

### **Concrete surfaces:**

Concrete substrate must be well prepared in order to avoid any coating defects.

For new surface, ensure that concrete is completely cured at least 30 days.

For both fresh and old concrete, decontamination is required to remove any dust, oil, grease, laitance, fatty acids or any additional contaminants. Acid etching is recommended using Eksen Kimya Hydrochloric Acid Solution. Decontamination could be also done using detergent scrubbing, low pressure water cleaning, or steam.

After cleaning, fill and repair any surface irregularities (cracks, holes and pores) with the cementitious mixture.

Cementitious mixture preparation: first, prepare a SBR Solution by mixing BMA SBR with water (1:5 by volume). Then, add the SBR Solution to the cement and sand until reaching the desired cementitious mixture.

Allow concrete substrate to dry then check the moisture and the pH of the substrate. Ensure that the pH is between 6 and 9 since alkalinity can affect and destroy paint adhesion. For the moisture content, make sure that it does not exceed 4% (by weight). Otherwise, the concrete surface is not a good candidate for painting.

### **Priming**

BMA Marino-Enamopoxy should be primed using BMA Marino-Primopoxy BMA-MPE cross-linked with 25% of its hardener BMA-HPE800. Allow sufficient drying before overcoating with BMA Marino-Enamopoxy.

### **Mixing**

Mix thoroughly 25% by volume of the hardener BMA-HPE800 with BMA Marino-Enamopoxy. Leave the mixture for 30 minutes to allow a complete chemical reaction between the components. Apply the mixture within its pot lifetime (2 hours) at ambient temperature.

### **Thinning**

If thinning is required, a maximum 10 - 15% (for brush or roller application) and 15 - 20% (for air spraying system) of BMA Epoxy Thinner or BMA Thinner 050 could be used to obtain the required viscosity.

### **Application**

BMA Marino-Enamopoxy should be applied in a well-ventilated area where the humidity does not exceed 85% and the temperature varies between 5°C and 40°C.

The application must be done on a clean and dry surface, using a brush, roller or spraying system within the pot life of the product (2 hours).

Two coats of BMA Marino-Enamopoxy could be applied to ensure better protection, but, it is recommended to apply the first coat using a brush to properly fill the grain.

## Drying Time

Surface (touch) dry: 2 hours

Dry to over coat: 10 - 24 hours

Full cure: 1 week

## AVAILABLE PACKAGING

Gallon kit: 3.785L + 1L – pail kit: 20L + 5L

## SHELF LIFE

BMA Marino-Enamopoxy should be stored in a clean and well-ventilated area, in unopened and undamaged containers in well-ventilated areas where the temperature varies between 5°C and 35°C. The product must be kept away from any heat, freezing source and direct exposure to sunlight.

Under these conditions, the shelf life of BMA Marino-Enamopoxy Economic will be 2 years and for its hardener 1 year.

After these periods, the products are subjected to re-inspection. Proper handling is required 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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