BMA Marino-Primopoxy

Code: BMA-MPE

Code of the hardener: BMA-HPE800

Color: White, black, grey, other colors on request

PROPERTIES

A two component solvent based epoxy primer, formulated to be used as a primer epoxy for areas subjected to water exposure. It has a high ability to withstand corrosion impact, to protect the surface with its high chemical and abrasion resistance and to provide high mechanical strength to the substrate. Any type of steel surface or concrete floors could be primed by BMA Marino-Enamopoxy Primer. The product conforms the compositional requirement of SSPC Paint 101.

RECOMMENDED USES

BMA Marino-Primopoxy can be used for:

- ✓ Concrete floors
- ✓ Boats and marine equipment
- ✓ Fuel and water tanks
- ✓ Water and chemical plants
- ✓ Swimming pools

PERFORMANCE BENEFITS

- ✓ Great resistance to abrasion, impact and high pressures
- ✓ Remarkable coverage and chemical resistance
- ✓ Good waterproofing and relative rustproofing properties
- ✓ Excellent heat, salt, acid, corrosion, scratch and scuff resistance
- ✓ Great prevention against surface strips and leaks
- ✓ Very high non-slipping properties if it's mixed with sand or smooth gravel
- ✓ Applicable on bitumen, concrete, steel, aluminum, fiberglass

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✓ Could be over coated by BMA Marino - Enamopoxy paint BMA-MEE

CHARACTERISTIC PHYSICO-CHEMICAL DATA

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

Tests	Norms	Results
Total solids, by weight	ASTM D2369	73.8%
Total solids, by volume	ISO 3233	57.3%
Specific Gravity (g/cm3)	ASTM D1475	1.477
Viscosity, @25°C (**Part A**)	ASTM D562	30 Poises
Flash Point	ASTM D3278	23°C
Total Volatile Organic Compound (VOC)	ASTM D3960	387.6 g/L
Spreading Rate at 40 µm DFT(1)	-	14.3 m²/L
Recommended WFT(2) @10%	-	77 µm

1) DFT: Dry Film Thickness
2) WFT: Wet Film Thickness

APPLICATIONS GUIDE

Surface Preparation

Before applying BMA Marino - Primopoxy, 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:

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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.

Mixing

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Pour components of BMA Marino – Primopoxy (BMA-MPE) into a lager container, add 25% by volume of its hardener (BMA-HPE800) and mix properly. Apply the mixture within its pot life (2 hours)

Thinning

If thinning is necessary, a maximum of 10- 15 % (for brush or roller application) and 15-20% (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 Marino - Primopoxy 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 5ºC and 35ºC.

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

Over coating of BMA Marino – Primopoxy could be done using a layer of BMA Enamopoxy Paint cross-linked with 25% of BMA-hardener BMA-HPE800.

Drying Time

Surface (touch) Dry: 2 hours

Dry to overcoat: 10 - 24hours

Dry to handle: 24 – 48 hours

AVAILABLE PACKAGING

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

SHELF LIFE

BMA Marino Primopoxy 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 Marino Primopoxy will be 1 year and 1 year for its hardener BMA-HPE800.

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

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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.

TDS.21 - Edition #: 3

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