TECHNICAL DATASHEET

BMA ENAMOPOXY FOR CONCRETE

Code: BMA-CWE

Code of the hardener: BMA-HPE800

Color: Catalogue colors

PROPERTIES

A two-component enamel epoxy, formulated to provide high resistance to chemical attack, abrasion and mechanical stresses. It is applied on well prepared concrete floors for protection and decoration purposes.

RECOMMENDED USES

BMA Enamopoxy could be used for:

- ✓ Concrete floors
- ✓ Chemical and power plants
- ✓ Marine applications, aquariums and swimming pools
- ✓ Hotels and restaurants

PERFORMANCE BENEFITS

- ✓ Corrosion and oxidation protection
- ✓ Resistance to heat, salt water and a wide range of chemicals
- ✓ Good protection against abrasion, impact and scratch effects
- ✓ Withstanding heavy duties
- ✓ High durability
- ✓ Easy coverage and cleanability

CHARACTERISTIC PHYSICO-CHEMICAL DATA

*Data corresponding to **BMA Enamopoxy for Concrete** cross linked with its hardener **BMA-HPE800**.*

Tests	Norms	Results
Total solids, by weight	ASTM D2369	68%

Nahr El Mot, 55091 - Lebanon
Tel.: +961 1 885385/485
Fax: +961 1 885685
E-mail: customerservice@bmapaints.com
www.bmapaints.com

Specific Gravity (g/cm^3)	ASTM D1475	1.3
Total Volatile Organic Compound (VOC)	ASTM D3960	385 g/L
Spreading Rate at 40µm DFT (1)	-	14.6m²/L
Recommended WFT (2) at 5% Dilution	-	74 µm
Hardener Code	-	BMA-HPE800
Hardener Percentage	-	25%

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

APPLICATIONS GUIDE

Surface Preparation

Before applying BMA Enamopoxy for Concrete, 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.

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.

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Priming

Concrete surface should be protected with one or two cross coats of BMA Insulopoxy BMA-INE cross-linked with 25% of its hardener BMA-HPE800, followed by BMA Primopoxy for Concrete BMA-CPE cross-linked with 25% of its hardener BMA-HPE800.

Mixing

Mix thoroughly 25% by volume of the hardener BMA-HPE800 with BMA Enamopoxy for Concrete. 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 Enamopoxy for Concrete should be applied in a well-ventilated area where the humidity does not exceed 85% and when the temperature varies between 5ºC and 40ºC. The application must be done on a clean and dry surface using brush, roller or airless spraying system within the pot life of the product (2 hours).
Two coats of BMA Enamopoxy for Concrete are usually required on concrete substrates.

Drying Time

Surface (touch) dry: 2 hours
Dry to over coat: 10 - 24 hours
Full cure: 1 week

AVAILABLE PACKAGING

Gallon Kit = 4l + 2L; Pail Kit = 20L + 5L

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SHELF LIFE

BMA Enamopoxy for Concrete should be stored in unopened and undamaged containers in well-ventilated areas where the temperature varies between 5ºC and 35ºC. The product must be kept away from any heat, freezing source and direct exposure to sunlight.
Under these conditions, the shelf life of BMA Enamopoxy for Concrete 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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