

BMA ENAMOPOXY FOR METAL

Code: BMA-SEE

Code of the hardener: BMA-HPE800

Color: Catalogue colors

PROPERTIES

A two-component enamel epoxy, specifically designed for metallic surfaces, with high resistance to chemical attack, to abrasion and mechanical stresses. It is used as an anti-corrosive against environmental conditions. It could be applied on indoor and outdoor steel or non-ferrous substrates for protection and decoration purposes.

RECOMMENDED USES

BMA Enamopoxy could be used for:

- ✓ Marine applications
- ✓ Metal roofs and fences
- ✓ Ships, pipelines and storage tanks
- ✓ Bridges
- ✓ Showers and kitchens

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 Metal** cross linked with its hardener **BMA-HPE800**.*

Tests	Norms	Results
Total solids, by weight	ASTM D2369	68.8%
Specific Gravity (g/cm ³)	ASTM D1475	1.34
Total Volatile Organic Compound (VOC)	ASTM D3960	386 g/L
Spreading Rate at 40µm DFT ⁽¹⁾	-	14.5m ² /L
Recommended WFT ⁽²⁾ at 5% Dilution	-	73 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 Metal, 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.

Priming

Before applying BMA Enamopoxy for metal, 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.

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Mixing

Mix thoroughly 25% by volume of the hardener BMA-HPE800 with BMA Enamopoxy for Metal. 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 Metal should be applied in a well-ventilated area where the humidity does not exceed 85% and when the temperature varies between 5°C and 40°C.

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

Two coats of BMA Enamopoxy for Metal are usually required on steel and galvanized steel 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

SHELF LIFE

BMA Enamopoxy for Metal should be stored 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 Enamopoxy for Metal 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.

TDS.16 - Edition #: 2

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.