

BMA PRIMOPOXY ECONOMIC

Code: 1BM-PEE

Code of the hardener: BMA-HPE800

Color: Catalogue Colors

PROPERTIES

A two component Solvent Based Epoxy, with good hardness and chemical resistance, used as an economical primer to provide chemical protection and mechanical strength against environmental conditions. It is applied on any type of indoor and outdoor well prepared concrete walls and floors substrates and on any metallic structures subjected to water immersion and mechanical impacts. The product conforms the compositional requirement of SSPC Paint 101.

RECOMMENDED USES

BMA Primopoxy is used for:

- ✓ Concrete walls and floors
- ✓ Marine applications and swimming pools
- ✓ Chemical, water and power plants
- ✓ Marine applications and swimming pools
- ✓ Warehouses and parkings
- ✓ Storage tanks
- ✓ General structural steel

PERFORMANCE BENEFITS

- ✓ Good heat, salt water and chemical resistance
- ✓ Good corrosion protection from environmental impact
- ✓ Good abrasion and impact resistance
- ✓ Good adhesion to the surface
- ✓ Withstanding heavy duties
- √ Good non-slipping properties

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- √ High durability
- √ Easily recoverable

CHARACTERISTIC PHYSICO-CHEMICAL DATA

Data corresponding to BMA Primopoxy Economic, BMA-PEE, cross-linked with its hardener BMA-HPE800

Tests	Norms	Results
Total Solids, by weight	ASTM	79%
	D1259	
Consistency, at 25°C	ASTM	30 Poises
	D562	
Specific Gravity (g/cm ³)	ASTM	1.6 g/cm ³
	D1475	
Total Volatile Organic Compound	ASTM	347 g/L
(VOC)	D3960	
Theoretical Spreading rate at 25 µm	-	25.2 m²/L
DFT ⁽¹⁾		10
Recommended WFT ⁽²⁾ at 20% Dilution	-	48 μm
Recommended WFT (2) at 50% Dilution	-	60 µm
Hardener Code	-	BMA-HPE800
Hardener Percentage	-	25%
Induction Time	-	30 min
Pot Life	-	4 hours

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

APPLICATIONS GUIDE

Surface Preparation



Before applying BMA Primopoxy Economic, 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 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.

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.

Mixing

Mix thoroughly 25% by volume of the hardener BMA-HPE800 with BMA Primopoxy Economic. Leave the mixture for 30 minutes to allow a complete chemical reaction between the components, just before the application. Apply the mixture within its pot lifetime (4 hours) at ambient temperature.

Thinning

If thinning is necessary, a maximum 15% (for brush or roller application) and 2% (for airless spraying system application) of BMA Epoxy Thinner could be used in order to obtain the required viscosity of the mixture.

Application

BMA Primopoxy Economic 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 a brush, roller or airless spraying system within the pot life of the prepared mixture (4 hours). It is recommended to apply the first coat of BMA Primopoxy Economic using a brush in order to avoid any formation of holes and fish eyes on the surface. The product should not be exposed to heavy mechanical stress before being full cured.

Overcoating could be done after 6 hours using for example BMA Enamopoxy Economic BMA-CEE cross-linked with 25% of its hardener BMA-HPE800.

The substrate should be dried for 2 days before light foot traffic, 5 days before heavy foot traffic and 10 days before vehicle traffic.

Drying Time

Surface (touch) dry: 2 hours Dry to over coat: 6 hours

Full cure: 3 days



AVAILABLE PACKAGING

1 US Gallon = 3.786 L; 5 US Gallons Pail = 18.9 L

SHELF LIFE

BMA Primopoxy Economic should be stored in closed and undamaged containers in a well-ventilated areas where the temperature varies between 5°C and 35°C and away from any source of heat or freezing. Direct exposure to sunlight should be avoided.

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

After these periods, the products are subjected to re-inspection. Proper handling is essential 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.15 - Edition #: 1

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