BMA CLEAROPOXY

Code: BMA-LAE200

Code of the hardener: BMA-HPE800

Color: Clear

PROPERTIES

A two component solvent based epoxy, designed to be used as a clear topcoat with good chemical resistance, non-slipping properties and excellent adhesion to the surface. It is especially formulated to withstand heavy loads and destructive environmental conditions. It could be applied as a protective topcoat or as an epoxy primer under an epoxy paint on a concrete, steel or galvanized steel surface.

RECOMMENDED USES

BMA Clearopoxy can be used for:

- ✓ Factories and manufacturing plants
- ✓ Shopping centers and warehouses
- ✓ Hotels, houses and hospitals

PERFORMANCE BENEFITS

- ✓ Superior clarity
- ✓ Resistance to heat solvents, acids and to a wide range of chemicals
- ✓ Withstanding heavy duties while maintaining its abrasion and impact resistance property
- ✓ Self-priming ability
- ✓ High durability
- ✓ Easy cleanability

CHARACTERISTIC PHYSICO-CHEMICAL DATA

*Data corresponding to **BMA Clearopoxy (Part A)** cross-linked with its hardener **BMA-HPE800***

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Tests	Norms	Results
Total Solids, by weight	ASTM D1259	57%
Consistency, at 25ºC (Part A)	ASTM D562	2 Poises
Specific Gravity (g/cm^3)	ASTM D1475	1.01
Spreading rate at 100 µm DFT (1)	-	5.5 m²/L
Hardener Code	-	HPE800
Hardener Percentage	-	25%
Induction Time	-	10 minutes
Pot Life	-	2 hours

1)DFT: Dry Film Thickness

APPLICATIONS GUIDE

Surface Preparation

Before applying BMA Clearopoxy, 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.

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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

Use BMA Primopoxy followed by BMA Enamopoxy as an intermediate topcoat. Insure a good drying of each layer before overcoating (6 – 8 hours drying period).

Mixing

Mix thoroughly 25% by volume of the hardener BMA-HPE800 with BMA Clearopoxy for Concrete. Leave the mixture for 10 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 necessary, a maximum 10% (for brush or roller application), 15% (for air spraying application) and 2% (for airless spraying system) of BMA Epoxy Thinner could be used in order to obtain the required viscosity of the mixture.

Application

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BMA Clearopoxy should be applied in a well-ventilated area where the humidity does not exceed 85% and when the temperature varies between 5ºC and 35ºC.
The application must be done on a clean and dry surface using a brush, roller, conventional or airless spraying system within the pot life of the prepared mixture (2 hours). It is recommended to apply the first coat of BMA Clearopoxy using a brush in order to avoid any formation of holes and fish eyes on the surface.

Drying Time

Surface (touch) dry: 3 hours
Dry to over coat: 24 hours
Full cure: 1 week

AVAILABLE PACKAGING

Gallon Kit = 4 L + 1 L; Pail Kit = 20 L + 5 L

SHELF LIFE

BMA Clearopoxy should be stored in unopened and undamaged containers in clean, dry and well-ventilated areas where the temperature varies between 5ºC and 35ºC and away from any source of heat and ignition.
Under these conditions, the shelf life of BMA Clearopoxy will be 2 years, and of its hardener 1 year.
After these periods, the products are subjected to re-inspection.

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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