BMA INSULOPOXY

Code: BMA-INE

Code of the hardener: BMA-HPE800

Color: Clear

PROPERTIES

A two component solvent based insulator, with good mechanical and chemical resistance. It is suitable for use on substrates subjected to heavy duties and water immersion. It could be applied on a concrete surface or as protective coating or clear primer under an epoxy paint on a metal surface.

RECOMMENDED USES

BMA Insulopoxy can be used for:

- ✓ Concrete floors
- ✓ Offshore environments and marine installations
- ✓ Chemical and electronics industries
- ✓ Warehouses, hospitals and showrooms

PERFORMANCE BENEFITS

- ✓ Good chemical, heat, salt water and abrasion resistance
- ✓ Withstanding heavy duties and impact resistance
- ✓ Compatibility with various aged coatings
- ✓ High durability and easy cleanability

CHARACTERISTIC PHYSICO-CHEMICAL DATA

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

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Tests	Norms	Results
Total Solids, by weight	ASTM D1259	60%
Consistency, at 25ºC (Part A)	ASTM D562	57 ± 3 sec
Specific Gravity (g/cm^3)	ASTM D1475	1.02
Total Volatile Organic Compound (VOC)	ASTM D3960	400 g/L
Spreading rate at 100 µm DFT (1)	-	5.5 m²/L
Hardener Code	-	BMA-HPE800
Hardener Percentage	-	25%
Induction Time	-	10 min
Pot Life	-	2 hours

1) DFT: Dry Film Thickness

APPLICATIONS GUIDE

Surface Preparation

Before applying BMA Insulopoxy, 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

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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.

Wooden surface:

For previously painted wooden surface, remove paint residues using a scraper in order to avoid the flaking of the new coating in case it is not compatible with the old one. Sand and smooth the surface then clean it well and remove the sanding dust. Let the surface dry before any primer or sealer application.

For new wood, sand the surface and all the edges lightly until smoothing. Apply an insulator (PU Milesi) for oily wooden substrate. Then, use NC Putty BMA-PUN to close off, patch and fill all surface imperfections (cracks, holes, pores, etc…). Clean the substrate and let it dry then make sure that the moisture content does not exceed 10%.

Priming

BMA Insulopoxy could be used as a clear primer on a concrete substrate or it could be covered after sufficient drying (6 – 8 hours) with BMA Primer Epoxy for concrete BMA-CPE cross-linked with 25% of its hardener BMA-HPE800.

Mixing

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Mix thoroughly 25% by volume of the hardener BMA-HPE800 with Insulopoxy. 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) and 15% (For spraying system) of BMA Thinner Epoxy could be added in order to obtain the required viscosity of the mixture.

Application

BMA Insulopoxy should be applied in a 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 or spraying system.
One coat of BMA Insulopoxy is usually required. Cross coating could be done if required after 24 hours.
On a concrete substrate, the Insulator must be dried for 2 days before any light foot traffic, for 5 days for heavy foot traffic and 10 days for vehicles traffic.

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 Insulopoxy should be stored in closed and undamaged containers in a ventilated area where the temperature varies between 5 ºC and 35ºC.
Under these conditions, the shelf life of BMA Insulopoxy is 2 years and it is 1 year for its hardener BMA-HPE800.
After these periods, the products are 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 45001:2018certificates, which guarantees that all operations are conducted in compliance with International Standards.

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