



BMA Commercial & Industrial s.a.r.l.

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1- **ITEM IDENTITY :**

- NAME : INSULOPOXY FOR CONCRETE + EPOXY HARDENER
- CODE : BMA-INE000 + BMA-HPE800
- DESCRIPTION : 2 components ,solvent based , air drying , non porous , relatively high solid epoxy clear insulator , based on a modified polyamid epoxy resin , and especially formulated for heavy duty services .

2- **ITEM USE FIELDS :**

- BMA insulopoxy is an indoor and outdoor insulator priming coat for concrete.
- It's especially designated to be used on any concrete floor which has no moisture problem in order to provide a better adherence for the whole epoxy system and to prevent its peeling and cracking .
- It's formulated for industrial uses , such as factories , warehouses , showrooms ,hospitals , schools and hotels floors ,as well as for garages, aquariums, swimming pools, restaurant kitchens , boat-buildings ,...

3- **ITEM GENERAL CHARACTERISTICS :**

- Great resistance to abrasion , impact and high pressures .
- Supreme wetting ability relatively to any other epoxy coating .
- Durable insulator up to 4 years minimum , according to the environment conditions (long immersion into water and salted water , very high pressure application ,...).
- Remarkable coverage and chemical resistance .
- Good waterproofing properties .
- Excellent heat , salt , acid , scratch and scuff resistance .
- Excellent resistance to floor constant beeting , high traffic ,.... When totally cured .

- Great heavy equipment and vehicles weight withstanding .
- Compatible with various aged coatings .
- Applicable on bitumen , concrete , ...
- Generation , during the application , of some relatively medium toxic vapors , evaporated by some solvents used during the production process .
- Heat generation during the mixture of the epoxy resin with its catalyst .
- Easy to be cleaned – up .

4- ITEM STANDARDS @ 25°C :

<i>Property</i>	<i>Standard</i>	<i>Result</i>
Specific gravity	ASTM D1475	1.01 ± 0.02 g/cm ³
Viscosity	ASTM D562	57 ± 3 sec
Solid content	ASTM D1259	60 % by volume
V.O.C. content	ASTM D3960	400 g/L
Catalyst %		25 %
Pot life		2 hours
Dry to touch		6 hours
Dry to overcoat	ASTM 1640	12 hours
Full cure		7 days
Theoretical spreading rate		7 ± 0.5 m ² /L upon the surface
Recommended wet film		40 - 50 µm/layer
Recommended dry film		25 - 30 µm/layer
Best diluent		Thinner epoxy BMA or thinner 050 BMA
Dilution %		45 - 50 % by brush & roller / 50 – 55 % minimum by air spraying
Flash point	ASTM D93,(PMCC)	30 °C (epoxy paint) & 25 °C (catalyst)
Miscibility with water		Not miscible
Color		Clear
Gloss level @60°	ASTM D523	75 – 85 units
Shelf life		2 years (epoxy insulator) & 1 year (catalyst) in well closed containers

5- APPLICATION :

- Substrate preparation
BMA insulopoxy should be applied on a well cleaned and primed surface , which should be previously treated with a suitable alkaline detergent or degreasing solution , to remove any oil or grease spot that could interfere with proper adhesion .
- Coating preparation
 - Stir the insulopoxy and the epoxy hardener cans separately with a wooden or a glass stirrer .
 - In a deep can , mix the exact needed quantity of insulopoxy, that could be used within the pot life limit , with 25% of hardener epoxy BMA-HPE800 .

- Wait few minutes till evacuating the generated heat , then thin with the suitable quantity of BMA thinner epoxy or BMA thinner 050.

➤ Application on bitumen / concrete surfaces

- Etch the concrete with Muriatic (hydrochloric) acid then rinse it immediately with water ; the surface must seem as a 150 – 180 grit sandpaper , and it must directly absorb few drops of water , otherwise the etching procedure should be repeated.
- When the surface is dry , rub your finger against it and for a white film of dust or powder , if it appears rinse again .
- After full dryness , the epoxy lacquer could be applied by 2 ways :

1st application possibility :

- begin with one or two cross coats (if the surface needs) of BMA-INE000 .
- allow to dry for at least 6 – 8 hours .
- follow – up by one or two cross – coat(s) of primopoxy for concrete.
- allow to dry for 6 – 8 hours between the layers .
- finish with one cross coat of enamopoxy for concrete .
- let dry for 2 days for light foot traffic , 5 days for heavy foot traffic and ten days for vehicle traffic .

2nd application possibility :

- prime the dry concrete directly with one cross - coat of insulopoxy, used as a clear primer and protective coat .
- allow to dry for about 12 hours then apply a second cross coat if needed .
- over-coat the insulopoxy with 1 or 2 cross-layers of BMA enamopoxy for concrete .

- to apply BMA insulopoxy on a previously coated floor , clean it well , remove any peeling paint or stain , and if it's sealed , grind it to remove the sealer , then scuff it well before the application to ensure proper adhesion .

➤ Application tips

- BMA epoxy solvent based could be applied by a brush , a roller or a spraying gun (which is not very recommended for safety issues) ; although while spraying epoxy , it's recommended to apply the first coat by a brush , this fills the grain better , because epoxy doesn't usually wet out well which could lead , during a non appropriate application to holes and fish eyes into the cured surface .
- It's recommended to mix just the needed quantity of BMA insulopoxy with 25 % of its hardener just before the application and to close hermetically the cans of the remaining 2 components to avoid their solidification .

➤ Cleaning

Clean hands and tools directly with BMA thinner epoxy or 050 ; any residue left in the spraying gun could irreversibly block its nozzle .

6- LIMITATIONS :

It's not recommended to use this product in the following cases :

- When the application area is closed and not well ventilated .
- When one of the 2 components is expired .

- When the temperature is below 5°C or above 40°C .
- When the substrate temperature is not at least 3°C above the dew point .
- When the humidity overstep 85 % .
- When rain is forecasted within 72 hours after application on an outdoor substrate .
- When the mixture of the 2 components oversteps the pot life limit .
- When the coating will be applied over a wet floor .

7- **AVAILABLE PACKAGES :**

- US gal and 5 US gal for the insulopoxy .
- 1L can and 5L gal for the catalyst .

8- **STORAGE :**

Store this product in well closed containers , kept in a ventilated area , away from direct sunlight , heat sources , flames , freezing conditions , in a moderate temperature between 5 to 35 °C .

9- **HEALTH AND SAFETY :**

- Keep out of the reach of children .
- Apply in a well ventilated area away from children , pregnant women and persons with respiratory problems .
- Don't hang the product container while storing .
- Do never touch any paint with bare hands .
- It's recommended to wear face mask and hand gloves while applying , especially in case of repetitive exposures .
- In case of eye contact flush with large amounts of water without rubbing eyes , if the malaise persists , directly contact a physician .
- In case of skin contact , wash the defected area with warm soapy water ; if any allergic reaction appears consult a physician .
- Get rid of the unused remaining quantities and the empty cans according to your country regulations .