



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

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**1- ITEM IDENTITY :**

- NAME : EPICON RUST PROOFING EPOXY + EPICON HARDENER
- CODE : BMA-ERP199 + BMA-HPE950
- DESCRIPTION : as a speciality polymer coating , BMA Epicon Rust Proofing is a two components , zinc phosphate rich , surface tolerant , epoxy multicoat that cures @ ambient temperatures .

**2- ITEM USE FIELDS :**

- BMA Epicon could be used as lining for tanks , piping and structures containing salty water , jet fuel , aliphatic hydrocarbons and associated products .
- It also could be used as a corrosion resistant paint for structural steel , storage tanks and equipment in refineries , pulp paper mills and chemical plants .
- It's also used on bridges , fertiliser plants , sewage treatment ,...

**3- ITEM GENERAL CHARACTERISTICS :**

- Great resistance to abrasion , impact and high pressures .
- Durable , up to 6 years minimum , according to the environment conditions (long immersion into water and salted water , very high pressure application ,... ) .
- Remarkable coverage and chemical resistance .
- Supreme corrosion resistance .
- Extremely high built , self priming coating .
- Fast drying , surface tolerant & fast curing epoxy .
- Could be top-coated by a wide range of paints .
- No lead added .

- Excellent wetting properties , even over tightly adhering rust , and especially over abrasive blasted surface .
- Great heavy equipment and vehicles weight withstanding .
- Suitable for indoor and outdoor use , as a protective barrier over steel , aluminium , hot dipped galvanized steel and masonry surfaces , at any industrial or marine new construction , repair and field maintenance application .
- High rich in Zinc and Iron Oxides derivatives .
- V.O.C. compliant .
- Large range of temperature application between -7°C till 60°C .

4- **ITEM STANDARDS @ 25°C :**

Specific gravity	1.55 ± 0.05 g/cm <sup>3</sup>
Viscosity	40 ± 2 Poises
Solid content	80 ± 3 % by volume
V.O.C. content	170 ± 10 g/L
Catalyst %	25 % by volume
Pot life	2 hours
Dry to touch	6 hours
Dry to overcoat	24 hours
Full cure	7 days
Theoretical spreading rate	4.5 ± 0.15 m <sup>2</sup> /L upon the surface
Recommended wet film	250 μm
Recommended dry film	200 μm
Best diluent	Thinner epoxy BMA or thinner 050 BMA
Dilution %	5 % by brush & roller / 10 % minimum by air spraying
Flash point	30 °C ( epoxy paint) & 25 °C (catalyst)
Miscibility with water	Not miscible
Color	colors on request
Gloss level	½ matt
Shelf life	2 years (epoxy paint) & 1 year (catalyst) in well closed containers

5- **APPLICATION :**

- Substrate preparation
  - BMA Epicon should be applied on a well cleaned 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 .
  - It also could be applied over a rusty piece of steel , noting that it's better to remove rust as possible as it could , by sand-blasting or by using Eksen cleaner .
- Coating preparation
  - Stir the Epicon Rust Proofing and the hardener in their cans separately with a wooden or a glass stirrer .

- In a deep can , mix the exact needed quantity of Epicon BMA-ERP199, that could be used within the pot life limit , with 25% of hardener BMA-HPE950 .
- Wait few minutes till evacuating the generated heat , then thin with the suitable quantity of BMA thinner epoxy or BMA thinner 050.
- Wait about 5 to 7 minutes for induction then begin applying .

➤ 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 wait for a white film of dust or powder , if it appears rinse again .
- After full dryness , the Epicon could be applied :
  - begin with one cross coat of Epicon .
  - allow to dry for 24 hours .
  - follow – up by one cross – coat of Epicon .
  - allow to cure for 7 days .
- A surface already treated with Epicon , could be top-coated with any type of paint epoxy , or left as it is .

➤ Application on steel surfaces

- To obtain great results , well clean the steel and pre-treat it with EKSEN KIMYA suitable cleaning solution , noting that Epicon could easily adhere onto a rusty surface , but for more durability , it's better to remove rust .
- After preparing the surface , follow the same application steps as for the floor application .

➤ Application tips

- BMA Epicon 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 Epicon 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 -7°C or above 60°C .
- 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 :**

- 1L can and 5 US gal for the epoxy coating .
- 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 .