



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

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1- **ITEM IDENTITY :**

- NAME : HAMMER
- CODE : BMA-HAS...
- DESCRIPTION : BMA hammer is a one component, relatively fast drying, corrosion resistant decorative coating for all kinds of metals, especially primed wood and especially primed plastic. The decorative hammered look is smooth to the touch and resists water. It gives the metal a subtle hammered effect with a metallic shine.

2- **ITEM USE FIELDS :**

- Used as a corrosion resistant and decorative coating over steel and many other metals, especially when painting elevators, fences, railings and garden furniture.
- Used as a decorative paint for wood primed with BMA-FDI primer as well as over some primed plastics.

3- **ITEM GENERAL CHARACTERISTICS :**

- Excellent anti-corrosive steel hammered paint.
- Ideal to be used on indoor and outdoor surfaces.
- Not suitable to paint galvanized steel unless it's treated with BMA wash primer.
- Usually applied by spraying (air-spraying and airless-spraying), but in some cases brush or roller could be used especially on substrates that could not be reached by spraying.

- Applied over steel primed with BMA antirust or BMA FDI, over galvanized steel treated with wash primer then primed with BMA antirust or BMA FDI, and over some plastics and wood primed with BMA FDI.
- Great adhesion and excellent pull – off resistance .
- Fast drying.
- Easy application and handling.
- Elegant and smooth decorative finish with a metallic shine.
- Available in a wide range of colors.
- Resistant to dirt.
- Variable obtained pattern depending on the application procedure and the dilution rate.
- Not suitable to be applied over rusty substrates.
- Durable coating with open eyes effect.
- Free of Calcium , Chrome and Lead pigments .
- Meet the regulations of the Lebanese Industrial Institute and the SASO .

#### 4- ITEM STANDARDS @ 25°C :

<i>Property</i>	<i>Standard</i>	<i>Result</i>
Specific gravity	ASTM D1475	0.985±0.025 g/cm <sup>3</sup> (according to the color)
Viscosity	ASTM D562	140 – 180 sec. (according to the color)
Solid content (by volume)	ASTM D1259	45 ± 3%
V.O.C. content	ASTM D3960	≤ 450 g/L
Dry to touch		15 – 20 min (according to the color)
Through dry		45 – 90 min (according to the color)
Full cure		6 hours
Theoretical spreading rate		9±1 m <sup>2</sup> /L
Recommended dry film		30±5 µm
Best diluent		BMA thinner - benzene
Dilution %		10 % by air spraying 0-2 % by airless spraying
Flash point	ASTM D93, (PMCC)	Over 30 °C
Miscibility with water		Not miscible
Color		Upon BMA hammer catalogue
Shelf life		2 years minimum in well closed containers

#### 5- APPLICATION :

- Substrate preparation
  - New steel surfaces should be dry, clean and free from any contamination (dust, dirt , oil , grease , ...) and especially not rusty .
  - Pre-painted steel surfaces should be treated to remove old paint films, as they should be totally dry and clean before being primed with BMA F.D.I. or BMA antirust then painted with BMA-HAS.
  - Wood and plastics new substrates should be primed with BMA F.D.I. before applying the hammer.

- Wood and plastics previously painted substrates should be treated with a paint remover then primed with BMA F.D.I. before applying the hammer.

➤ Coating preparation

- Stir BMA-HAS... in its can with a wooden or a glass stirrer, without shaking it, in order to avoid air bubbles .
- Mix only the needed quantity with BMA thinner and keep the remaining un-mixed paint in a well closed container to avoid its solidification .

➤ Application on steel surfaces

- Clean the surface well from any dust , dirt , oil , grease or contamination with the suitable EKSEN KIMYA cleaning solution .
- If the surface is corroded , rust must be totally removed .
- Spray one coat of BMA F.D.I. or BMA antirust diluted with thinner BMA on the clean and dry substrate ; let dry.
- Spray a 2<sup>nd</sup> coat of BMA F.D.I. or BMA antirust diluted with thinner BMA on the clean and dry substrate ; let dry.
- Overcoat the totally dry primer with BMA hammer coating and let cure for 1 – 2 hour(s) before applying a second layer of hammer if needed.

➤ Application on wood surfaces

- Sand the clean and dry wood to smoothness and prime it with BMA F.D.I., let dry for at least 1 hour.
- Finish with one or 2 coats of BMA hammer after diluting with the suitable quantity of BMA thinner.

➤ Cleaning

Clean hand and tools immediately with BMA thinner or benzene.

6- **LIMITATIONS :**

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

- If the paint is expired , or its can is not well sealed .
- If the rain is forecasted within 36 hours .
- If the substrate is rusty or not well primed.
- In a closed or not well ventilated area .
- If the temperature is below 5°C or above 40°C .
- If the steel is rusty , or on galvanized steel .

7- **AVAILABLE PACKAGES :**

- US gallon and 5US gallon .

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 .

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