BMA EMULSION

TECHNICAL DATA SHEET

Product Code: 1BM-PAE
Hardener Code (if applicable): Not Applicable

I. Product Description

BMA Emulsion 1BM-PAE is a vinyl acetate copolymer emulsion paint designed for interior walls and ceilings. This water-based, environmentally friendly coating provides a smooth, flat finish upon drying.

II. Product Performance Characteristics

- Environmentally friendly formulation
- Great hiding power
- Smooth, flat finish
- Low odor for improved indoor comfort

III. Areas of Application

BMA Emulsion offers excellent adhesion and coverage on a variety of substrates, including:

- Concrete
- Gypsum boards
- Plaster
- Primed wooden surfaces

IV. Technical Specifications

Data for BMA Emulsion 1BM-PAE:

Parameter	Norm/Standard	Result
Total Solids, by weight (%)	ASTM D2369	54
Total Solids, by volume (%)	ISO 3233	33.6
Viscosity at 25°C (KU)	ASTM D562	120
Specific Gravity (g/cm^3)	ASTM D1475	1.5
Total Volatile Organic Compound (VOC) (g/L)	ASTM D3960	26

Practical Spreading Rate (m^2/L)	-	13-16.2
Contrast ratio at 150µm thickness (%)	-	96
Diluent	-	Clean Water
Dilution Rate (%)	-	20-25

[1] DFT: Dry Film Thickness
[2] WFT: Wet Film Thickness

V. Application Procedure

Surface Preparation

Before applying BMA Emulsion, all necessary pretreatment must be done. Surface should be clean, dry and free of all contaminants (oils, 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. If needed, an ammonia solution followed by a well rinsing could be used for a well cleaning.

Priming

The non-printed wall should be primed with water-based sealer, puttied till perfection, then undercoated with BMA solvent borne or water borne undercoat.

Thinning

Use up to 25 % of water when applying using a brush or roller, and up to 20 % of water for air spraying application (not recommended).

Application

BMA Emulsion should be applied on a clean and dry surface in a well-ventilated area where the humidity does not exceed 75% and the paint temperature within 10 - 30°C. Otherwise, more thinning will be required and extra water could affect the opacity and the sag resistance.
To obtain the best result, follow the below steps and apply the recommended systems:
For new surface application:

- On the clean wall apply ate least one layer of BMA sealer clear or white.
- If the wall is in good conditions: apply one layer of BMA Extra Fill Putty 1BM-PUW010 followed by one to two layers of BMA Ultra Fine Putty 1BM-PUW020.

- If the wall is in bad conditions: apply two to three layers of BMA Extra Fill Putty 1BM-PUW010 followed by one to two layers of BMA Ultra Fine Putty 1BM-PUW020.
- A drying period of 12 hours is required between putty layers application.
- Rub the surface using a 150 – 180 grit rubbing paper.
- Clean the substrate with a soft broom or an air pressure system.
- Apply BMA Sealer (1BM-SEW) or BMA water-based undercoat (1BM-UNW) or a BMA solvent-based undercoat (1BM-UNS) and let the surface dry for 8 – 12 hours.
- Apply one coat of BMA Emulsion used as a checking layer in order to cover any remaining holes or uncovered areas by BMA Putty.
- Rub the checking layer after 24 hours with a 180 – 220 grit rubbing paper.
- Clean the substrate with a soft broom or an air pressure system.
- Finalize with two coats of BMA Emulsion after thinning and using a brush, roller or air spraying system (not recommended). Between the two layers application, rub the surface with a 220-grit rubber paper.

For pre-painted surface application:

- Rub the surface with a fine waterproof abrasive paper followed by a well cleaning.
- Apply minimum two layers of water-based BMA Putty: at least one layer of BMA Extra Fill Putty 1BM-PUW010 followed by at least one layer of BMA Ultra Fine Putty 1BM-PUW020.
- Rub the surface after 12 hours using a 150 – 180 grit rubbing paper.
- Continue with the same steps recommended for a new surface application.
- If the pre-painted surface is in good condition, a direct application of BMA Emulsion over a water-based paint or a synthetic undercoat could be done.

VI. Drying Conditions

Condition	Time
Surface Touch Dry	30 minutes
Dry to over coat	4 hours
Full cure time	48 hours

VII. Color Range

According to BMA catalog colors.

VIII. Packaging

Available in:
Gallon & Pail kits.

IX. Shelf Life & Storage Conditions

Shelf Life	Storage Temperature & Humidity	Storage Conditions
▪ 1 year from the manufacturing date.	▪ **Temperature:** Between 5ºC and 35ºC ▪ **Humidity:** Should not exceed 85%	Store in undamaged, unopened containers. The product must be kept away from direct sunlight and any sources of heat or flame.

X. Safety, Health, and Environmental Compliance

Aspect	Details
Environmental Impact	Contains volatile organic compounds (VOCs); avoid release into the environment. Dispose of in accordance with local environmental regulations. Prevent contamination of soil and waterways.
Health Hazards	Harmful by inhalation, skin contact, and if swallowed. May cause allergic skin reactions, respiratory irritation, or eye damage. Prolonged exposure may affect the central nervous system.
Safety Precautions	Use only in well-ventilated areas. Wear appropriate personal protective equipment (PPE) including gloves, goggles, and a respirator. Avoid direct contact with skin and eyes. Do not eat, drink, or smoke while using the product.
First Aid Measures	**Inhalation:** Move to fresh air; seek medical attention if symptoms persist. **Skin Contact:** Wash immediately with soap and water. Remove contaminated clothing. **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical advice. **Ingestion:** Do not induce vomiting. Rinse mouth and seek immediate medical assistance.

XI. Certifications and Test Reports

BMA Commercial & Industrial s.a.l holds ISO 9001:2015, ISO 45001:2018, and ISO 14001:2015 certifications, ensuring that all operations are conducted in compliance with international standards. This product is formulated with low levels of volatile organic compounds (VOC) and is entirely free from lead and other hazardous heavy metals. Its composition complies with international environmental regulations and health safety standards, ensuring safer application, improved indoor air quality, and reduced environmental impact.

XII. Disclaimer

The statements, technical information, and recommendations contained herein are believed to be accurate. However, as the conditions and methods of use of the product and the information provided are beyond our control, BMA Commercial & Industrial s.a.l expressly disclaims any and all liability for any results obtained or consequences arising from the use of the product or reliance on this information.