

## BMA WATER BASED ENAMEL

Code: BMA-PAW

Color: Catalogue colors

### PROPERTIES

An acrylic enamel formulated to be applied when a gloss finishing is required with superior color retention properties, long lasting ability and a high resistance to peeling and flaking. BMA-PAW could be applied on interior and exterior surfaces while providing the benefits of an oil based enamel with minimum impact on environment and user health. BMA Water Based Enamel is used in houses, offices, hotels and commercial buildings.

### RECOMMENDED USES

BMA Water Abased Enamel could be used for:

- ✓ Cement plaster
- ✓ Building panels and metal substrates
- ✓ Primed woodwork
- ✓ Plasterboards

### PERFORMANCE BENEFITS

- ✓ High gloss, tough and flexible finishing with a color retention ability
- ✓ Protection against cracking and peeling
- ✓ Good adhesion properties and covering capacity
- ✓ Easily washable
- ✓ Quick drying
- ✓ Long durability

### CHARACTERISTIC PHYSICO-CHEMICAL DATA

**Data related to the Water Based Enamel, white color.**

Tests	Norms	Results
Total solids, by weight	ASTM D2369	44.82 %

Total solids, by volume	ISO 3233	33.99%
Total pigments, by weight	ASTM D3723	21%
Consistency, at 25°C	ASTM D562	15 Poises
Specific Gravity (g/cm <sup>3</sup> )	ASTM D1475	1.223
Total Volatile Organic Compound (VOC)	ASTM D3960	0.61 g/L
Dry opacity; contrast ratio at 150µm	-	0.97
Spreading Rate at 35µm DFT <sup>(1)</sup>	-	9.7 m <sup>2</sup> /L

<sup>1)</sup> DFT: Dry Film Thickness

## APPLICATIONS GUIDE

### Surface Preparation

Before applying BMA Water Based Enamel, 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 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. This could be also done using 3% solution of ammonia in water.

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 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.

### Priming

Following a sufficient preparation of the substrate, apply one coat of BMA Water Based Sealer BMA-SEW151 after dilution with 25 to 50% of water when applying with a brush or roller, or with 35 to 75% of water when applying with an air spraying system under the light colors of BMA-PAW.

For the dark colors of BMA-PAW, use BMA-SEW150 after being diluted with 30 to 60% with water for brush or roller application, or with 35 to 85% of water for air spraying application

## Thinning

If thinning is required, use 10 to 15% (for brush or roller application) and 20 to 25% of water (for air spraying application).

## Application

BMA Water Based Enamel should be applied in a well ventilated area where the humidity does not exceed 75% and the temperature varies between 10°C and 30°C.

The application must be done on a clean and dry surface using a brush, roller or air spraying system. To obtain the expected results, follow one of the following recommended systems based on the substrate aging conditions:

### **On a new surface:**

- Rub the surface until smoothing before any type of application.
- When the wall is in bad conditions, apply two layers of BMA Extra Fill Putty BMA-PUW010 followed by one layer of BMA Ultra Fine Putty BMA-PUW020. When it is in good conditions, apply one layer of BMA-PUW010 followed by two layers of BMA-PUW020.
- Let the putties dry for 12 hours between each layer then rub the last layer after total dryness with a 150 – 180 grit paper and clean the surface from any dust residues.
- Apply one coat of BMA Water Based Sealer BMA-SEW150 or BMA-SEW151 and let it dry for 12 hours.
- Apply one layer of BMA-PAW and consider it as a “checking layer” to cover all remaining pores and areas uncovered with BMA Putties.
- After 24 hours, rub the surface with a 180 – 220 grit paper and finalize the system with two coats of BMA-PAW after sufficient dilution using a brush, roller or air spraying system

### **On a pre-painted surface:**

- If the surface is in bad conditions, rub with a fine waterproof abrasive paper to remove any remaining old paint then continue the system as recommended for a new surface.

- When the pre-painted surface is in good conditions, a direct application of BMA-PAW could be done.

## Drying Time

Surface (Touch) Dry: 1 hour

Dry to over coat: 6 hours

Full Cure: 24 hours

## AVAILABLE PACKAGING

1 US Gallon = 3.786 L; 5 US Gallons Pail = 18.9 L

## SHELF LIFE

BMA Water Based Enamel should be stored in closed and undamaged containers in well-ventilated area where the humidity does not exceed 80% and the temperature varies between 10°C and 35°C. The storage must be done away from direct exposure to sunlight or any freezing or heating source.

Under these conditions, the shelf life of BMA-PAW will be 1 year. After this period the product is subjected to re-inspection. Proper handling is essential to maintain good quality.

## 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 45001:2018 certificates, which guarantees that all operations are conducted in compliance with International Standards.

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