TECHNICAL DATASHEET

# BMA PURE ACRYLIC ENAMEL FLEXIBLE & ANTI-CARBONATION

*Code: BMA-EPA*

*Color: Catalogue colors*

## PROPERTIES

A water based enamel formulated with anti-carbonation properties in order to protect the covered walls from chlorides and carbon dioxide, thus, to improve concrete resistivity. BMA-EPA could act as a self-priming or as a topcoat over exterior walls and facades. It could be applied for decoration and protection of exterior surfaces like bridges, tunnels, roofs, industrial and commercial buildings.

## RECOMMENDED USES

BMA Pure Acrylic Enamel could be used for:

- ✓ Concrete and masonry structures
- ✓ Rendered surfaces
- ✓ Gypsum board
- ✓ Blockworks
- ✓ Building panels and metal substrates
- ✓ Primed woodwork
- ✓ Plasterboards

## PERFORMANCE BENEFITS

- ✓ Protection from carbonation
- ✓ Barrier against rust inhibition
- ✓ Ability to be used as a self-priming or as an overcoating product
- ✓ Environmentally friendly
- ✓ Chemical, mechanical and stain resistance
- ✓ Non yellowing
- ✓ Resistance to UV light and weather conditions
- ✓ Easily washable
- ✓ Long durability



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## CHARACTERISTIC PHYSICO-CHEMICAL DATA

| Tests | Norms | Results |
|---|---|---|
| Total solids, by weight | ASTM D2369 | 36% |
| Specific gravity (g/cm$^3$) | ASTM D1475 | 1.07 |
| Viscosity, @25 ºC | ASTM D562 | 107 KU |
| Total volatile organic compound (VOC) | ASTM D3960 | 56.25 g/L |
| Spreading rate at 35 µm DFT (1) | - | 9.5m²/L |

*1)DFT: Dry Film Thickness*

## APPLICATIONS GUIDE

### Surface Preparation

Before applying BMA Pure Acrylic Enamel Flexible, 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

When BMA-EPA is applied as an overcoating, prime the surface with a layer of BMA Institutional Primer Sealer VOC/Odor Free BMA-IPS.

### Thinning

If thinning is required, use 50% of water when applying BMA-EPA as a self-priming over a plastered wall, and about 70 to 75% of water when priming fairfaced concrete walls.



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For an over coat application, use 20% of water when applying using a brush, roller or air spraying system, and 2% when applying with an airless spraying system.

## Application

BMA Pure Acrylic Enamel should be applied in a well-ventilated area where the humidity does not exceed 85% and the temperature varies between 5°C and 35°C.
The application must be done on a clean and dry surface using a brush, roller or spraying system.
Two systems are recommended based on BMA-EPA type of usage:

**For application as a self-primer:**

- Apply a diluted layer of BMA-EPA and let it dry for 4 to 5 hours.
- Based on the way of application, thin the product correctively and apply it as a second layer.
- After a sufficient dryness for 4 to 5 hours, cover the surface with a last diluted layer of BMA-EPA.

**For application over BMA Acrylic Water Based Sealer:**

- Prime the substrate with a BMA-IPS after thinning with maximum 5% of water.
- Let it dry for 5 to 6 hours.
- Overcoat with a layer of BMA-EPA that must be diluted correspondingly to the type of application (with brush, roller or spraying system).
- After 4 to 5 hours, finalize the system with a diluted layer same as the previous applied coat.

## Drying Time

Surface (Touch) Dry: 1 hour
Dry to over coat: 6 hours

## AVAILABLE PACKAGING

Gallon = 4 L; Pail = 17 L

## SHELF LIFE

BMA Pure Acrylic Enamel Flexible should be stored in a well-ventilated area where the humidity does not exceed 85% and the temperature varies between 5°C and 35°C. Under these conditions, the shelf life of BMA-EPA will be 1 year. After this period the product is subjected to re-inspection. Proper handling is essential to maintain good quality.



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## 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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