# BMA ENAMEL SYNTHETIC

*Codes:*

| | |
|---|---|
| Enamel Synthetic - Matt | BMA-PYM |
| Enamel Synthetic - 30% Gloss | BMA-PYT |
| Enamel Synthetic - Demi Matt | BMA-PYD |
| Enamel Synthetic - Glossy | BMA-PYG |

*Color: Catalogue colors*

## PROPERTIES

BMA Enamel Synthetic is a one component alkyd finish topcoat with a quick drying capacity. It is especially designed to be used for interior and exterior primed metal, wood, cementitious and plastered surfaces subjected to various weathering conditions and frequent cleaning. BMA Enamel Synthetic is suitable for application in industrial areas, for bridges, fences, balconies, kitchens and public buildings.

## RECOMMENDED USES

BMA Enamel Synthetic could be used for:

- ✓ Wood primed surfaces
- ✓ Gypsum surfaces
- ✓ Concrete and plastered walls
- ✓ Steel structures

## PERFORMANCE BENEFITS

- ✓ Suitable for interior and exterior application
- ✓ Durable and hard wearing finish
- ✓ Withstanding weather conditions
- ✓ Good hardness and good coverage
- ✓ Abrasion and chemical resistance
- ✓ Quick drying
- ✓ Withstanding frequent cleaning without variation in shine, color or gloss level.



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## CHARACTERISTIC PHYSICO-CHEMICAL DATA

*Data corresponding to **BMA Enamel Synthetic Glossy** (BMA-PYG)*

| Tests | Norms | Results |
|---|---|---|
| Total solids, by weight | ASTM D2369 | 67.68% |
| Total solids, by volume | ISO 3233 | 56.44 % |
| Specific Gravity (g/cm$^3$) | ASTM D1475 | 1.19 |
| Viscosity, at 25°C | ASTM D562 | 17 Poises |
| Total Volatile Organic Compound (VOC) | ASTM D3960 | 375.91 g/L |
| Spreading Rate at 35µm | - | 15.1 m²/L |

*Data corresponding to **BMA Enamel Synthetic Demi Matt** (BMA-PYD) & **30% gloss** (BMA-PYT)*

| Tests | Norms | Results |
|---|---|---|
| Total solids, by weight | ASTM D2369 | 71.48% |
| Total solids, by volume | ISO 3233 | 58.03 % |
| Specific Gravity (g/cm$^3$) | ASTM D1475 | 1.27 |
| Viscosity, at 25°C | ASTM D562 | 20 Poises |
| Total Volatile Organic Compound (VOC) | ASTM D3960 | 362.67 g/L |
| Spreading Rate at 35µm | - | 16.1 m²/L |

*Data corresponding to **BMA Enamel Synthetic Matt** (BMA-PYM)*

| Tests | Norms | Results |
|---|---|---|
| Total solids, by weight | ASTM D2369 | 77.93% |
| Total solids, by volume | ISO 3233 | 60.66 % |
| Specific Gravity (g/cm$^3$) | ASTM D1475 | 1.509 |
| Viscosity, at 25°C | ASTM D562 | 20 Poises |



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| | | |
|---|---|---|
| Total Volatile Organic Compound (VOC) | ASTM D3960 | 333.07 g/L |
| Spreading Rate at 35µm | - | 16.5 m²/L |

## APPLICATIONS GUIDE

### Surface Preparation

Before applying BMA Enamel Synthetic, 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.

**Metal surfaces:**
For new steel, clean the surface from any oil or grease residues using a solution (1:10) of Eksen Kimya (1 L of EKSEN KIMYA DL50 dissolved in 10 L of water). Sand the substrate to Sa 2½ until smoothing then remove all sanding dust and let it dry before any primer application.

For painted steel, remove loose and peeling paint using mechanical methods such as sanding and sandblasting of the entire surface until smoothing so the new coating can adhere properly. When the old paint is compatible with the new one, only light sanding is required. Then, remove persistent dirt and sanding residues with a detergent solution.

For non-ferrous metal (galvanized steel, aluminum, stainless steel, iron, etc…), use BMA Wash Primer BMA-WPU in order to etch the substrate, remove any corrosion residues and promote adhesion to the subsequently applied coatings. In case of unweathered surface or when weathering is not possible, apply a sweep or brush blast cleaning using a non-metallic abrasive in order to lightly roughen the surface. Let the surface dry before coating application.

**Wooden surfaces:**
For previously painted wooden surface, remove paint residues using a scraper in order to avoid the flaking of the new coating in case it is not compatible with the old one. Sand and smooth the surface then clean it well and remove the sanding dust. Let the surface dry before any primer or sealer application.

For new wood, sand the surface and all the edges lightly until smoothing. Apply an insulator (PU Milesi) for oily wooden substrate. Then, use NC Putty BMA-PUN to close off, patch and fill all surface imperfections (cracks, holes, pores, etc…). Clean the substrate and let it dry then make sure that the moisture content does not exceed 12%.



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Sand until smoothing using a sanding paper with a 300 grit size. Clean it well before any coating application.

**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.
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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 could be used for a well cleaning.

## Priming

**Metal surfaces:**
Prime the surface with a coat of BMA Antirust Primer BMA-ANY or BMA Zinc chromate primer.
**Concrete surfaces:**
After cleaning, seal the surface with BMA Water Based Sealer in order to be ready to receive the BMA Water Based Putty Filler.
**Wood Surfaces:**
Prime the surface with two to three layers of BMA NC, PU or Synthetic Primer.

## Thinning

If thinning is required, use 10 to 15% (for brush or roller application) and 10 to 20% (for air spraying application) of BMA White Spirit for a maximum protection of the paint gloss level. BMA Thinner Synthetic could also be used.

## Application

BMA Enamel Synthetic should be applied on a clean and dry surface in a well-ventilated area where the humidity does not exceed 65% and the surface temperature at least 5°C. The product should not be exposed to mechanical stress before full curing.

After the corresponding primer application and a full drying, two to three coats of BMA Enamel synthetic should be applied using a brush, roller or an air spraying system, followed by maximum two coats of BMA Varnish for metal and wooden surfaces and by any type of synthetic paint for walls application.

## Drying Time



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Surface (Touch) Dry: 4 hours
Dry to over coat: 24 hours
Thorough dry: 48 hours

## AVAILABLE PACKAGING

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

## SHELF LIFE

BMA Enamel Synthetic should be stored in undamaged and unopened containers in a well-ventilated area where the temperature varies between 10°C and 35°C and far away from any heat or freezing source or a direct exposure to sunlight.
Under these conditions, the shelf life of BMA Enamel Synthetic will be 2 years. 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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