BMA VARNISH SYNTHETIC

TECHNICAL DATA SHEET

Product Codes:

Product Name	Product Code
Varnish Synthetic Glossy	1BM-VAY0100
Varnish Synthetic Demi-Matt	1BM-VAY0200
Varnish Synthetic Matt	1BM-VAY0300
Varnish Synthetic 25% Gloss	1BM-VAY0400

Hardener Code (if applicable): Not Applicable

I. Product Description

BMA Varnish is a clear, alkyd-based topcoat formulated for use when a highly resistant surface is required. It is available in various gloss levels: matt, semi-matt, and glossy, to achieve the desired finish and appearance on the coated surface. BMA Varnish is easy to apply, non-yellowing, and highly resistant to weather variations. It can be used as a decorative varnish for both exterior and interior wooden surfaces.

II. Product Performance Characteristics

- Resistance to severe weather and abrasion
- Non-yellowing properties
- Provides a barrier against sunlight exposure
- Delivers a good finishing appearance
- Easy to apply
- Withstands frequent cleaning
- Tintable to desired shades
- Offers good flexibility and high durability

III. Areas of Application

BMA Varnish Synthetic can be used for:

- Wooden windows frames, doors and furniture
- Kitchens

IV. Technical Specifications

Data for BMA Varnish Synthetic gloss levels 1BM-VAY:

Parameter	Norm/Standard	Result
Total Solids, by weight (%)	ASTM D1259	53.21
Total Solids, by volume (%)	ISO 3233	49
Viscosity at 25°C (Poises)	ASTM D562	20
Specific Gravity (g/cm^3)	ASTM D1475	0.97
Total Volatile Organic Compound (VOC) (g/L)	ASTM D3960	474.79
Theoretical Spreading Rate m^2/L)	-	9.8-12.25
Recommended WFT [2] (µm)	-	70-90
Recommended DFT [1] (µm)	-	40-50
Appropriate solvent	-	BMA White Spirit
Solvent ratio by volume (%)	-	15-20

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

V. Application Procedure

Surface Preparation

Before applying BMA Varnish Synthetic, 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.

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 BMA insulator for oily wooden substrate. Then, use BMA NC Putty or BMA Putty Polyester 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 10%.

Priming

BMA Varnish Synthetic is a self-priming product.

Thinning

If thinning is required, use 10–15% of BMA White Spirit for brush or roller application, and 20–25% for air spray application. Avoid using other thinners or benzene, as they may alter the gloss level of the topcoat.

Application

BMA Varnish Synthetic should be applied in a well-ventilated area where the temperature ranges between 5°C and 35°C. The application must be done on a clean and dry surface, after stirring the topcoat well. Apply several thin coats instead of one thick coat, ensuring proper drying between each layer.

For wooden surfaces: After priming the surface, apply two to three coats of BMA Enamel Synthetic, followed by one to two coats of BMA Varnish Synthetic.

VI. Drying Conditions

Condition	Time
Surface Touch Dry	3 hours
Dry to over coat	Overnight
Through Dry	24 hours

VII. Color Range

Available in clear only.

VIII. Packaging

Available in:
Kilo, Gallon & pail kits.

IX. Shelf Life & Storage Conditions

Shelf Life	Storage Temperature & Humidity	Storage Conditions
▪ 2 years 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.

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

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