BMA MARINE PAINT

TECHNICAL DATA SHEET

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

I. Product Description

BMA Marine Paint is an air-drying, synthetic, alkyd-based coating. It is a hard, durable, and fast-drying paint with excellent yellowing resistance, as well as strong color and gloss retention. With its excellent adhesion, high strength, and resistance to chemicals, humidity, and weather, BMA Marine Paint is ideal for application on ferrous metal surfaces, especially those exposed to harsh marine conditions.

II. Product Performance Characteristics

- Long lasting and relatively fast drying paint for interior and exterior superstructures and steel.
- Corrosion protection
- Chemical, moisture and weathering resistance
- Suitable for mild to moderate marine environments.
- Great yellowing resistance.
- Hard, durable and ultrasmooth finish with high opacity and great coverage.
- Superior adhesion ability.

III. Areas of Application

BMA Marine Paint can be used for:

- Boats and ships
- Marine equipment
- Heavy equipment

IV. Technical Specifications

Data for BMA Marine Paint 1BM-PMA (white color):

Parameter	Norm/Standard	Result
Total Solids, by weight (%)	ASTM D1259	70.50
Total Solids, by volume (%)	ISO 3233	62
Viscosity at 25°C (Poises)	ASTM D562	30±2
Specific Gravity (g/cm^3)	ASTM D1475	1.2±0.01
Total Volatile Organic Compound (VOC) (g/L)	ASTM D3960	365 ± 4
Theoretical Spreading Rate (m^2/L)	-	17.5 ± 1
Recommended WFT [2] (µm)	-	55-60
Recommended DFT [1] (µm)	-	30-50
Gloss Level (%)	-	Glossy
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 Marine paint, 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.

Metal Surfaces

For new steel, clean the surface from any oil or grease residues using SAMA chemical 3 in 1 phosphating additive (1L:35L 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 or 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, sanding residues, and zinc salts with a detergent solution and water.

For non-ferrous metal (galvanized steel, aluminum, stainless steel, etc…), remove corrosion residues and promote adhesion to the subsequently applied coatings, use a thin layer (8-10 µm) of BMA Wash Primer in order to etch the substrate. In case of unetched surface or when etching 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.

To adjust the surface unevenness, BMA putty polyester should be applied.

For corrosion prevention, the cleaned surface should directly be primed.

Priming

BMA Marine Paint should be applied over two coats of BMA Marine Primer. Allow sufficient drying time between coats and before overcoating with BMA Marine Paint.

Thinning

If thinning is required, add 15-20% of BMA Thinner 050 when applying by air spray, brush, or roller to achieve the desired viscosity.

Application

BMA Marine Paint should be applied in a well-ventilated area where the humidity does not exceed 75% and the temperature varies between 5ºC and 35ºC.

Application Method	Details
Spray	Application must be carried out on a clean, dry surface using an air spraying system.
Brush	Application must be carried out on a clean, dry surface using a brush.
Roller	Application must be carried out on a clean, dry surface using a roller.

Two coats of BMA Marine Paint can be applied to ensure better protection. It is advisable to apply several thin coats, allowing each layer to dry completely before applying the next.

VI. Drying Conditions

Condition	Time
Surface Touch Dry	4 hours
Through Dry	48 hours
Dry to over coat	Overnight

VII. Color Range

Available in white or as per catalog.

VIII. Packaging

Available in:
Gallon & Pail kits.

IX. Shelf Life & Storage Conditions

Shelf Life	Storage Temperature & Humidity	Storage Conditions
▪ 2 years from the manufacturing date.	▪ **Temperature:** Between 5°C and 35°C ▪ **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 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.