BMA NITROCELLULOSE PAINT

TECHNICAL DATA SHEET

Product Codes: 1BM-PGN, 1BM-PDN, 1BM-PTN and 1BM-PMN

Hardener Code (if applicable): Not Applicable

I. Product Description

A one component nitrocellulose modified oil-based resin. It is a quick drying topcoat with high durability, excellent hardness and adhesion to the surface. It can be applied on steel and wooden substrates.

II. Product Performance Characteristics

- Economical topcoat
- Good coverage
- Applied for refinishing purpose
- Fast drying

III. Areas of Application

BMA NC Paint can be used for:

- Wood furniture
- Industrial equipment
- Machine parts

IV. Technical Specifications

Data for BMA NC Paint (all gloss levels):

Parameter	Norm/Standard	Result
Total Solids, by weight (%)	ASTM D1259	45
Total Solids, by volume (%)	ISO 3233	35
Viscosity at 25°C (Poises)	ASTM D562	55
Specific Gravity (g/cm^3)	ASTM D1475	1.15
Total Volatile Organic Compound (VOC) (g/L)	ASTM D3960	450

Appropriate solvent	-	BMA Thinner Super
Solvent ratio by volume (%)	-	20-35

Film Thickness & Coverage

Parameter	Norm/Standard	Result
Recommended WFT [1] (µm)	-	90-110
Recommended DFT [2] (µm)	-	30-40
Theoretical Spreading Rate (m^2/L)	-	8.75-11.66

[1] WFT: Wet Film Thickness

[2] DFT: Dry Film Thickness

V. Application Procedure

Surface Preparation

Before applying BMA NC 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 2.5 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 any corrosion residues and promote adhesion to the subsequently applied coatings, use a thin layer (8-10 µm) of BMA Wash Primer BMA-WPU 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.

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 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 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 10%.

Apply 2 to 3 layers of BMA NC Primer. Sand until smoothing using a sanding paper with a 300 grit size. Clean it well before any coating application.

Priming

Metal and wooden substrates could be primed before BMA NC Paint application using BMA NC Primer. Priming must be done directly after preparing, cleaning and drying the surface.

Thinning

A 20 to 35 % of BMA NC Thinner could be added to BMA NC Paint when the application is done by air spraying system is used for primer application.

Application

BMA NC Paint should be applied in a well-ventilated area where the relative humidity does not exceed 70% and the temperature is at least 10°C.

The surface should be clean, dry and free of all contaminants before applying the BMA NC Paint using an air spraying system.

Two coats of BMA NC Primer could be applied on steel and wooden surfaces when required.

VI. Drying Conditions

Condition	Time
Surface Touch Dry	60 minutes
Full Cure	2 days

VII. Color Range

According to BMA catalog colors.

VIII. Packaging

Available in:
Kilo, Gallon & Pail kits.

IX. Shelf Life & Storage Conditions

Shelf Life	Storage Temperature & Humidity	Storage Conditions
▪ 1 year 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.