BMA NITROCELLULOSE PRIMER

TECHNICAL DATA SHEET

Product Codes: 1BM-PRN

Hardener Code (if applicable): Not Applicable

I. Product Description

A nitrocellulose solvent-based pigmented primer with fast drying, high durability, good hardness and adhesion properties. It is designed for application on any steel or wooden substrates.

II. Product Performance Characteristics

- Quick drying
- Excellent durability
- Good adhesion
- Good sanding properties
- Easy to apply

III. Areas of Application

BMA NC Primer can be used for:

- Automotive vehicles and components
- Metallic or wooden furniture
- Doors and windows frames

IV. Technical Specifications

Data for BMA NC Primer White:

Parameter	Norm/Standard	Result
Total Solids, by weight (%)	ASTM D1259	60.2
Total Solids, by volume (%)	ISO 3233	40
Viscosity at 25°C (Poises)	ASTM D562	65
Specific Gravity (g/cm^3)	ASTM D1475	1.348

Total Volatile Organic Compound (VOC) (g/L)	ASTM D3960	536.07
Appropriate solvent	-	Universal Fast Thinner
Solvent ratio by volume (%)	-	35-50

Film Thickness & Coverage

Parameter	Norm/Standard	Result
Recommended WFT [1] (µm)	-	85-115
Recommended DFT [2] (µm)	-	35-45
Theoretical Spreading Rate (m^2/L)	-	8.88-11.42

[1] *WFT: Wet Film Thickness*

[2] *DFT: Dry Film Thickness*

V. Application Procedure

Surface Preparation

Before applying BMA NC Primer, 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, sand the substrate to Sa 2½ if it is corroded then remove all sanding dust. Clean the surface from any oil or grease residues using a solution of Samas 3 in 1 phosphating additive diluted in water (1:35); 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.

For non-ferrous metal (galvanized steel, aluminum, stainless steel, iron, etc…), remove any corrosion residues. Use Wash Primer in order to etch the substrate, and promote adhesion to the subsequently applied coatings. 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. If the applied coating is a solvent-based system, no thinning is required for the insulator, if it is a water-based system, thinning of 100% is required for faster solvent evaporation, and let it dry for at least 3 days. Then, use BMA NC Putty 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 the primer. Sand until smoothing using a sanding paper with a 300-grit size. Clean it well before any coating application.

Thinning

If thinning is required, use 35-50% of thinner when the air spraying system is used for primer application.

Application

BMA NC Primer should be applied in a well-ventilated area where the relative humidity does not exceed 70%. The required temperature for optimum performance is between 10°C and 30°C.

BMA NC Primer must be applied on a clean and dry surface after sufficient mixing with the thinner using a spraying system.

Overcoating can be done when the primer is sufficiently dried.

VI. Drying Conditions

Condition	Time
Surface Touch Dry	15 minutes
Dry to sand	45 to 60 minutes
Dry to over coat	2 hours

VII. Color Range

According to catalog colors. Special colors are available upon request.

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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