BMA POLYURETHANE ACRYLIC NON-YELLOWING LACQUER

Code: 1BM-LPU

Code of its hardener: BMA-HPU650

Color: Clear

PROPERTIES

A two-component polyurethane acrylic non-yellowing clear topcoat with weathering resistance, designed to cover surfaces with various levels of chemical and mechanical exposure. BMA PU Acrylic non-yellowing (NY) lacquer can be applied on well prepared steel surfaces in industrial and commercial projects where non-yellowing property is important.

RECOMMENDED USES

BMA PU Acrylic NY Lacquer could be used for:

- ✓ Automotive and machinery applications
- ✓ Commercial, architectural, and structural steelwork
- ✓ Buses and trucks body paintings
- ✓ Refineries and power plants

PERFORMANCE BENEFITS

- ✓ Non-yellowing
- ✓ Withstanding chemical and physical environments
- ✓ Great gloss retention
- ✓ A long-term performance
- ✓ Easily recoatable
- ✓ Fast drying

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CHARACTERISTIC PHYSICO-CHEMICAL DATA

*Data corresponding to **BMA PU Acrylic NY Lacquer**, BMA-LAK001, cross-linked with its hardener **BMA-HPU650***

Tests	Norms	Results
Total solids, by weight	ASTM D2369	65%
Total solids, by volume	ISO 3233	61%
Consistency, at 25ºC	ASTM D562	1.03
Specific Gravity (g/mL) (PART A)	ASTM D1475	5 Poises
Spreading Rate at 35 µm DFT (1) (m^2/L)	-	17.5 m²/L
Recommended WFT (2) at 10% Dilution (µm)	-	60 µm
Hardener percentage by volume	-	25%

1) DFT: Dry Film Thickness
2) WFT: Wet Film Thickness

APPLICATIONS GUIDE

Surface Preparation

Before applying BMA PU Acrylic NY Lacquer, 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.

Steel 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.

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For non-ferrous metal, 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 10%. Sand until smoothing using a sanding paper with a 300-grit size. Clean it well before any coating application.

Priming

Steel surfaces need 1 to 2 coats of priming using BMA Antirust primer (BMA-ANY).
Wood surfaces need 1 to 2 coats of priming using BMA PU Primer (BMA-PPU).

Mixing

Pour contents of BMA Polyurethane Acrylic NY Lacquer into a larger container, add its corresponding hardener (BMA-HPU650) and mix them thoroughly. The hardener percentage to the base component is 25% by volume.

Thinning

A 10% of BMA PU Thinner can be used to reach the desired viscosity depending on the tools for the application (brush, roller, spraying system).

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Application

BMA PU Acrylic NY Lacquer should be applied in a well-ventilated area where the humidity does not exceed 85% and the temperature varies between 5°C and 40°C. The application must be done using a brush, roller or airless spraying system.

Drying Time

Surface (Touch) Dry: 1 hour
Dry to over coat: 8-12 hours
Full cured: 5-6 days

AVAILABLE PACKAGING

4L + 1L

SHELF LIFE

BMA PU Acrylic NY Lacquer should be stored in unopened and undamaged containers where the humidity does not exceed 85% and the temperature varies between 5°C and 35°C. The storage must be done away from direct exposure to sunlight and far away from any heating or freezing source.
Under these storage conditions, the shelf life of BMA-LAK will be 2 years and of its hardener it will be 1 year. After these periods, the products are subjected to re-inspection. Proper handling is required 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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