TECHNICAL DATASHEET

BMA PU ACRYLIC

Code : BMA-PAK

Color: Upon request

PROPERTIES

A two component acrylic resin crosslinked with aliphatic isocyanate. It has a glossy finish with a color retention property and excellent chemical and physical strength. BMA-PAK is characterized by its durability, yellowing and weathering resistance. It could be used over any steel or wooden substrate in industrial and commercial projects.

RECOMMENDED USES

BMA PU Acrylic could be used for:

- ✓ Commercial, architectural, and structural steelwork
- ✓ Buses and trucks body paintings
- ✓ Refineries and power plants
- ✓ Wooden frames, panels, and furniture

PERFORMANCE BENEFITS

- ✓ Withstanding chemical and physical environments
- ✓ Great gloss retention
- ✓ Non yellowing
- ✓ A long term performance
- ✓ Easily recoatable
- ✓ Easily bonded to epoxies

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CHARACTERISTIC PHYSICO-CHEMICAL DATA

Data corresponding of the PU Acrylic White (Glossy) BMA-PAK060 cross-linked with its Hardener BMA-HPU650.

Tests	Norms	Results
Total solids, by weight	ASTM D2369	70%
Consistency, at 25ºC (Poises)	ASTM D562	10
Specific Gravity (g/mL)	ASTM D1475	1.3
Spreading Rate at 35µm DFT (1) (m^2/L)	-	18.2
Recommended WFT (2) at 10% Dilution (µm)	-	60
Recommended WFT (2) at 20% Dilution (µm)	-	66
Hardener percentage by volume	-	25%
Pot Life at 23ºC (min)	ISO 9514:2005	90

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

APPLICATIONS GUIDE

Surface Preparation

Before applying BMA PU Acrylic, 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 (galvanized steel, aluminum, stainless steel, iron, etc…), 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

A DFT of 35 µm of BMA polyurethane primer (PPU 060 cross-linked with HPU 300, with a ratio 100:50 by volume) should be applied directly after preparing, cleaning and drying the surface. Primer should be allowed to become tack-free before being sanded.

Mixing

Pour contents of BMA Polyurethane Acrylic into a larger container, add its corresponding hardener (BMA-HPU600 for matt and demi-matt BMA-PAK or BMA-HPU650 for glossy BMA-PAK) and mix them thoroughly. The hardener percentage to the base component is 25% by volume.

Thinning

If thinning is required, use maximum 10 to 15% (for brush or roller application) or 25-40% (for airless spraying system) of BMA PU Thinner BMA-THI070.

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Application

BMA PU Acrylic 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: 30 minutes
Dry to over coat: 8-12 hours
Full cured: 5-6 days

AVAILABLE PACKAGING

1 Gallon = 5 L; 1 US Gallon = 3.786 L; 5 US Gallons Pail = 18.9 L

SHELF LIFE

BMA PU Acrylic 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-PAK 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.

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QUALITY ASSURANCE

BMA Commercial & Industrial s.a.l is a holder of the ISO 9001:2015 and OHSAS 18001:2007 certificates, which guarantees that all operations are conducted in compliance with International Standards.

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