

BMA PU PAINT

Code: 1BM-PPU

Code of the hardener: if glossy: BMA-HPU200, if matt: BMA-HPU100

Color: white, black or upon request

PROPERTIES

BMA Polyurethane Paint is a two-component isocyanate cured polyurethane coating formulated with high solid, good hardness, elasticity and good chemical resistance. BMA Polyurethane Paint comes in different colors (white, black, metallic, pearl etc....) and different gloss levels (glossy, matt, demi-matt, 30% matt). It is suitable for application over any wooden and steel substrates.

RECOMMENDED USES

BMA Polyurethane Paint can be used for:

- ✓ Wooden frames, panels, and furniture.
- ✓ Commercial, architectural, and structural steelwork.
- ✓ Primed plastic and fiberglass.

PERFORMANCE BENEFITS

- ✓ Excellent weather resistance & durability
- ✓ Water resistance, chemical, alkali, fungi, and high abrasion resistance
- ✓ High solid
- ✓ High flexibility & hardness
- ✓ Anti-scratch

CHARACTERISTIC PHYSICO-CHEMICAL DATA

*Data corresponding to **BMA PU Paint**, BMA-PPU, cross-linked with the chosen hardener **BMA-HPU200 (glossy) or BMA-HPU100 (matt)**, white color as a reference.*

Tests	Norms	Glossy	Demi-matt	Matt
Total solids, by weight	ASTM D2369	55%	58%	60%

Total solids, by volume	ISO 3233	50%	43%	44%
Consistency, at 25°C	ASTM D562	20 Poises	10 Poises	10 Poises
Specific Gravity (g/cm ³)	ASTM D1475	1.37	1.27	1.33
Total Volatile Organic Compound (VOC)	ASTM D3960	463 g/L	534 g/L	522 g/L
Spreading Rate at 35µm DFT ⁽¹⁾	-	14.5 m ² /L	12.2 m ² /L	12.6 m ² /L
Recommended WFT ⁽²⁾ at 10% Dilution	-	75 µm	90 µm	87 µm
Hardener Code	-	HPU200	HPU100	HPU100
Hardener percentage by volume	-	50%	50%	50%

¹⁾ DFT: Dry Film Thickness

²⁾ WFT: Wet Film Thickness

APPLICATIONS GUIDE

Surface Preparation

Surface should be clean, dry and free of all contaminants (oils, agents, dust, dirt, etc...) in order to avoid the risk of surface failing.

Treatment of wooden surfaces:

Moisture content in wood should not exceed 10%. A suitable filler should be applied to fill cracks and holes. Sand and smooth wooden surfaces. Milesi Polyurethane insulator (LQA 836 cross-linked with LNB 837) should be applied over the clean surface in order to isolate the wood before applying any primer.

Treatment of steel surfaces:

To obtain optimum performance, for metal surface, substrate must be cleaned by blast cleaning method. Acid and alkali rust scale should be neutralized by ammonia solution (5%). New steel must have surface profile to have key by means of mechanical or chemical etching. Old aged coatings must be cleaned with water soluble oil emulsifiers and detergents and then rinsed with plenty of water.

Priming

A Dry Film Thickness of 35 µm of BMA polyurethane primer (PPU 060 cross-linked with HPU 300) 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 Paint into a larger container, add its corresponding hardener (HPU100 or HPU200) and mix them thoroughly. The hardener percentage to the base component is 50% by volume.

Thinning

BMA Polyurethane Paint can be diluted up to 20% with BMA PU Thinner.

Application

BMA Polyurethane Paint should be applied in a ventilated area where the temperature varies between 5°C and 35°C and when relative humidity of the air does not exceed 85%. BMA Polyurethane Paint must be applied on a dry surface. It could be applied by air spray or airless spray, by brush or roller. Recoating is possible after 24 hours.

Drying Time

Surface (Touch) Dry: 1 hour
Dry to over coat: 24 h
Full cured: 1 week

AVAILABLE PACKAGING

4L + 2L; 5L + 2.5L; 20L + 10L; 25L + 12.5L

SHELF LIFE

BMA Polyurethane Paint should be stored in unopened and undamaged containers in a well-ventilated area where the temperature varies between 10 and 35°C. The product must be kept away from direct exposure to sunlight or any heat or flame source.

Under these conditions, the shelf life of BMA Polyurethane Paint will be 2 years and of its hardener it will be 1 year. After these periods, the products quality is subjected to re-inspection. Proper handling is essential 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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IMPORTANT: The statements, technical information and recommendations contained herein are believed to be accurate. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, BMA Commercial & Industrial s.a.l expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.