

## BMA POLYURETHANE TWO COMPONENT

*Code: 1-BM-PPU*

*Codes of the hardener: BMA-HPU100 for non-glossy PU; BMA-HPU200 for glossy PU*

### PROPERTIES

A two component isocyanate cured polyurethane coating with good hardness, elasticity and good chemical resistance. It is suitable for application over any wooden and steel substrates.

### RECOMMENDED USES

BMA Polyurethane 2 Component can be used for:

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

### PERFORMANCE BENEFITS

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

### CHARACTERISTIC PHYSICO-CHEMICAL DATA

*Data corresponding to BMA Polyurethane 2 Component cross-linked with its Hardener HPU200.*

Tests	Norms	Results
Total solids, by weight	ASTM D2369	58%
Total solids, by volume	ISO 3233	57%
Consistency, at 25°C (without hardener)	ASTM D562	60 KU

Specific Gravity (g/cm <sup>3</sup> )	ASTM D1475	1.2
Total Volatile Organic Compound (VOC)	ASTM D3960	484 g/L
Spreading Rate at 80µm DFT <sup>(1)</sup>	-	7.2 m <sup>2</sup> /L
Recommended DFT <sup>(1)</sup> (µm)	-	123-140
Recommended WFT <sup>(2)</sup> (µm)	-	70-80

<sup>1)</sup> DFT: Dry Film Thickness

<sup>2)</sup> WFT: Wet Film Thickness

## APPLICATIONS GUIDE

### Surface Preparation

Surface should be clean, dry and free of all contaminants (oils, 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 DFT 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 2 Component into a larger container, add its corresponding hardener (HPU 100 or HPU 200) and mix them thoroughly. The hardener percentage to the base component is 50% by volume.

## Thinning

BMA Polyurethane 2 Component can be diluted up to 20% with BMA PU Thinner.

## Application

BMA Polyurethane 2 Component should be applied in a ventilated area where the humidity does not exceed 75% and the temperature varies between 5°C and 35°C.

BMA Polyurethane 2 Component 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: 15 minutes

Dry to over coat: 24 h

Full cured: 1 week

## AVAILABLE PACKAGING

1 Gallon Kit = 5 L + 2.5 L; 1 US Gallon Kit = 3.786 L + 0.95 L

1 Pail Kit = 25 L + 12.5 L; 5 US Gallons Pail Kit = 18.9 L + 9.45 L

## SHELF LIFE

BMA Polyurethane 2 Component should be stored in undamaged and unopened containers in a well-ventilated area where the temperature varies between 5°C and 35°C, far away from any heat or freezing source or a direct exposure to sunlight.

Under these conditions, the shelf life of BMA Polyurethane 2 Component will be 2 years, and the shelf life of its hardener will be 1 year from the date of manufacture. After this period, the paint 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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