

## BMA POLYURETHANE TOPCOAT

Codes: 1BM-PTC

Color: Clear

### PROPERTIES

A two component polyurethane clear topcoat with weathering resistance, designed to cover surfaces with various levels of chemical and mechanical exposure. With its good application properties, this product must be applied over a dry and free of contaminants sealer polyurethane coating in order to protect the surface and provide the required gloss level.

### RECOMMENDED USES

BMA PU topcoat is formulated to cover wood surfaces for:

- ✓ Bars and kitchens bench tops
- ✓ Bathrooms vanities
- ✓ Industrial floors
- ✓ Wooden furniture

### PERFORMANCE BENEFITS

- ✓ Resistance to destructive weathering conditions
- ✓ Various gloss levels
- ✓ Resistance to water and chemical exposure
- ✓ Withstanding impact and scratch effects

### CHARACTERISTIC PHYSICO-CHEMICAL DATA

Tests	Norms	Glossy	½ Matt	30% Gloss	Matt
Consistency	ASTM D562	> 80 KU	> 80 KU	> 80 KU	> 80 KU

Specific Gravity (g/cm <sup>3</sup> )	ASTM D1475	1.0 ± 0.1	1.0 ± 0.1	1.0 ± 0.1	1.0 ± 0.1
Gloss at 60°	ASTM D523	70 - 95	35 - 50	25 - 35	0 - 5
Total solids, by weight	ASTM D2369	52%	45%	45%	46%
Hardness, pencil test	ASTM D3363	> 4 H	> 4 H	> 4 H	> 4 H
Flexibility, Mandrel bend test	ASTM D522	<b>Passed</b> No cracking or loss of adhesion	<b>Passed</b> No cracking or loss of adhesion	<b>Passed</b> No cracking or loss of adhesion	<b>Passed</b> No cracking or loss of adhesion
Accelerated Aging, 30 days at 50°C	ASTM D1849	<b>Passed</b> No settling nor coagulation	<b>Passed</b> No settling nor coagulation	<b>Passed</b> No settling nor coagulation	<b>Passed</b> No settling nor coagulation
Pot Life at 23°C	DIN EN ISO 9514	60 min	60 min	60 min	60 min
Hardener Percentage, by volume	-	50%	50%	50%	50%
Induction Time	-	5 - 8 min	5 - 8 min	5 - 8 min	5 - 8 min

## APPLICATIONS GUIDE

### Surface Preparation

Before applying PU topcoat , 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. PU topcoat must cover sealer polyurethane topcoat that must be as well dry with 0% of contaminations.

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 40 - 60 µm of BMA polyurethane Sealer (SPU102 cross-linked with its hardener PU Hardener BMA-HPU102 or SPU 104 cross-linked with its hardener PU Hardener BMA-HPU104) 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 PU topcoat into a larger container, add its corresponding Hardener and mix them thoroughly. The hardener percentage to the base component is 50% by volume.

## Thinning

If thinning is required, 20 to 25% (for brush or roller application) and 20 to 30% (for air spraying application) of BMA PU Thinner could be used in order to obtain the required viscosity.

## Application

BMA PU topcoat should be applied in a well-ventilated area where the humidity does not exceed 85% and the temperature not less than 10°C. The substrate temperature should be at least 3°C and it must be dry and free of any residues.

Since the coating is a clear system, apply Wood Stain then 2 to 3 layers of BMA Sealer. PU topcoat could be applied using a brush, roller or a spraying system to the recommended thickness of 40 - 60 µm per layer.

## Drying Time

Surface (Touch) Dry: 30 minutes

Dry to over coat: 12 hours

Full cure time: 1 week

## AVAILABLE PACKAGING

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

## SHELF LIFE

PU topcoat should be stored in closed 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 PU topcoat will be 2 years and for 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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