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40061 MINERBIO (BO)

# YL M602/ XXX

Waterborne bi-component basecoat with insulating properties – For interior

## Main properties

• Transparency and brightness comparable to solvent based products	• For any kind of wood substrates as well as for MDF
• Not yellowing – acrylic based	• Limited fibre swelling

## Versions

M602/ C02	White	M602	Clear	M602/ NTR	Neutral
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Recommended use:	• Furniture components	• Doors	• Kitchen doors
Application method:	Spray: airmix, airless		
Product preparation:	Catalyse with YC M402 at 10% or with YC M400.		

## Chemical-physical characteristics (23 °C)

	Clear	C02	NTR
Solid content (%)	30 ± 2	43 ± 2	44 ± 2
Specific gravity (g/cm <sup>3</sup> )	1,030 ± 0,030	1,180 ± 0,030	1,250 ± 0,50
Viscosity (seconds)	Din 6 45 ± 5	Din 8 22 ± 5	Din 8 22 ± 5
Pot life	4 hours		
pH	7,5 - 8,5		

## Application properties

Vertical application (wet µm)	120
Recommended n° of coats	2 coats
Recommended quantity per coat (g/m <sup>2</sup> )	min: 80 max: 150
Interval between coats	2 - 3 hours
Spreading rate (m <sup>2</sup> /litre)	8 - 10

## General remarks on coating system

Drying at 20°C and 45 – 65 RU%: 100 g/m <sup>2</sup>		Forced drying: 100 g/m <sup>2</sup>	
Dust free	60 minutes	Temperature	Time
Handable	90 minutes	Flash Off	25 °C 5 minutes
Stackable	8 hours	Laminar air	45 °C 60 minutes
Sandable	8 hours	Percussion air	20°C 5 minutes
Overcoating	4 hours	Stackable	70 minutes
		Sandable	120 minutes
		Overcoating	2 hours

**Substrate preparation:** Substrate must be well clean and dry (10-14% humidity) with no oil, resins and wax traces. Sand the wood substrate with 180-220 paper grit in order to reduce fibre swelling.

**Application instructions:** To obtain the best result, it is recommendable not to thin with water but to choose the best application conditions that allow the maximum atomisation. For example, for spray application:

	Nozzle	Air pressure	Coating pressure
Conventional air gun	1,9 - 2	3 - 4	--
Airmix	9	0 - 2	80 - 110
Airless	9	--	120 - 150

The use of pre atomizers and pre heaters (with temperatures between 30 and 35 °C) ensures better application consistency all year round. When application is carried out at low temperatures and / or high relative humidity, or when the second coat is applied, drying time gets longer. Drying should be carried out in areas with good air ventilation (the whole volume of air of the drying room should be changed every 15-20 minutes).

**Wood species:** Some wood species like oak, acacia and ash tree contain water-soluble coloured extractive substances which could stain the white basecoat even if more coats are applied. These wood species can be varnished by using as insulating product YLM602 clear version or YL M602/XXX. YLM602 and YLM602/XXX have good insulating properties against tannin and yellow spot that could appear on MDF surfaces not properly treated.

**Overcoating:** YL M602 can be overcoated with waterborne basecoat for interior within 2 – 6 hours from application (depending on the environment condition in which drying takes place). If a longer period of time has passed or before application of topcoat products, it is recommended to sand the surface before overcoating.

**Sanding:** Due to its insulating properties, YL M602 needs longer sanding time. For excellent sanding, it is recommended to wait at least 6 hours and use widely-spaced paper grit and stearate 280 – 320 paper grit. For MDF (especially for milled parts), we suggest sanding with 180-220 paper grit in order to fasten topcoat application.

For further information regarding the use of waterborne products, please refer to our Main Guide.

## General remarks

- Mix well before use.
- If properly stored at temperatures between 5 and 35°C, shelf life is 12 months.
- On application, the temperature of the product, the substrate, the coating and the working environment should never fall below 15°C. Coatings applied at lower temperatures will show chemical and mechanical properties lower than standard performances that can be normally achieved.
- Coating left overs (washing waters, waters from spray booths, used coatings) must be disposed of according to local regulations. Never dispose of residues directly into drains.
- Application tools must be cleaned with water after use. When dry films must be removed, special detergent AY---M460 should be used, letting it work overnight and then cleansing with water.

What to do in order to...	Add	% of use	
		%	Grams for 25 litres
Increase thixotropy or viscosity	<b>AY M454</b>	0,5 - 1	125 -250
Eliminate craters/cissings	<b>AY M457</b>	0,2 - 1	50 - 250