

## Technical Data Sheet NR 14100

# TRANSPARENT MONOCOMPONENT WATER BASED ACRYLIC MATT TOP COAT FOR OUTDOORS

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PRODUCT: LA410I TRANSPARENT MONOCOMPONENT WATER BASED ACRYLIC MATT TOP COAT FOR OUTDOORS

DESCRIPTION: top coat studied for cycles on Meranti mahogany with excellent transparency, absence of air in the film of paint even with high pressure applications (airless- airmix), high wetting of the support and resistance to blocking and water in short times. It is able to filter the ultraviolet radiations from the sunlight.

USE: frames and shutters, wooden items for outdoors

### SPECIFICATIONS OF SUPPLIED PRODUCT

Physical state: thixotropic doulgas coloured liquid  
Solid content %: 38±2

Gloss: 30±3 (glossmetre 60°)  
Minimum temp. of film formation: 10 with 65% R.H.  
Light fastness: excellent  
Yield: from 2 to 4 m<sup>2</sup>/kg depending on application method

SUBSTRATE: wood treated with our impregnating agents, intermediate impregnating agents and water based base coats for outdoors  
APPLICATION: By spray with cup, airmix, airless or electrostatic pistols, both vertically and horizontally.

### METHOD OF APPLICATION:

- 1) cup pistol: 1,9 - 2,5 mm nozzle, pressure 3,5 - 4 bar.
- 2) aerograph for thixotropic products article 001658U15, pressure 2.5-3.5 bar.
- 3) Airmix: 9 - 11 nozzle, material pressure 80 - 110 bar, air pressure 1,5 - 2 bar.
- 4) Airless: 11 - 13 nozzle + preatomisation, material pressure 100- 120 bar. The use of preatomisers does not increase atomisation but eliminates turbulence of the paint and uniforms the jet and dimension of the particles. In the winter it is advisable to use preheaters at 30-35°C to help degassing, transparency and distension of the paint.

### DRYING:

Touch dry: 3-6 hours at 23°C and 60% R.H.  
Completely dry: 7-10 days at 23°C and 65% R.H.  
Stackable: vertically after 24-48 hours at 23°C and 60% R.H.

### DILUTION: ready to use.

If necessary it can be diluted with water, preferably demineralised, up to 10% max., bearing in mind that dilution will reduce vertical adhesion

QUANTITY TO APPLY: 250-300 microns of wet film

NUMBER OF COATS: maximum two. Do not apply total quantities of above 400-425 microns of wet film

INTERVAL BETWEEN COATS: 12-24 hours with drying at 23°C and 65% R.H., 4-6 hours in ventilated hot air oven at 30-35°C

### EXAMPLES OF PAINTING CYCLE:

cycle for Meranti mahogany at 23°C and 60% R.H.:

- 1) sand the bare wood with grain 150-180 paper
- 2) apply monocomponent coloured impregnating agent IM121S by flow coating or immersion (60-80g/m<sup>2</sup>)  
Drying for 2-3 hours
- 3) apply one coat of intermediate impregnating agent IM441 by flow coating or immersion (60-80 g/m<sup>2</sup>)  
Drying for 2-3 hours
- 4) apply a second coat of intermediate impregnating agent IM441 as above.  
Drying for 6-12 hours
- 5) light sanding with spaced grain 320 paper.
- 6) apply a final coat of LA410I monocomponent top coat with airless pistol, quantity 300 microns of wet film.  
Drying in tunnel for 4-6 hours
- 7) vertical stacking after 12 hours

STORAGE INFORMATION: store the product at temperatures above 5°C and below 35°C

SHELF LIFE AT 20°C: 6 months in correctly stored unopened tin

SAFETY ADVICE: the product is not hazardous according to EEC norms

NB:

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- 1) apply and dry with temperatures of minimum 15°C and maximum 65% R.H.
- 2) wait until the film is completely dry before exposing the painted items to outdoors. Drying normally requires 7-10 days at 20°C and 60% RH. Quantities of paint applied superior to those indicated, shorter intervals between coats and drying in unsuitable conditions can noticeably prolong the complete evaporation of the coalescent and of the water in the film of paint, creating, on pieces exposed to outdoors, the formation of white haloes during cold or humid weather, and the formation of air bubbles and problems of blocking in hot weather.
- 3) the product is permeable to the resinous substances contained in the knots and sacs of conifers. Please consult our technical assistance personnel for information regarding these problems.

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NOTES: CLEANING: wash the equipment immediately after use with water. To remove dried films of paint use thinner D1057, leaving to soak overnight and then rinsing with water.

#### SPECIFICATIONS OF SUPPLIED PRODUCT

CHARACTERISTICS	UNITS	VALUE	METHOD
Specific gravity at 20°C:	g/ml	1.04 ± 0.05	MP01
Visc.Brook. gir./rpm/°C :	cPs	5000 - 7000 (6/100/25)	MP19
Visc.Brook. gir./rpm/°C :	cPs	120000 - 150000 (4/1/25)	MP19
Fineness:	µm	20 max.	MP12
pH value:	/	8.5 ± 0.5	MP13

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The quality control value of the viscosity refers to the product immediately after checking. Any variations of the data specified in the technical data sheet could be due to circumstances such as length and conditions of storage.

Always verify the suitability of the product for the job to be done before application. We can not accept responsibility for the outcome.

The information contained in this technical data sheet, as well as any verbal information, is given to the best of our knowledge. We do not accept responsibility for obsolete or incorrect information. The information is to be considered obsolete when a new technical data sheet is issued. Please feel free to contact us to request the latest edition.