

## WOOD PRESERVATIVE MATT-[Clear]

**Product No. WT 73X0**

[Water borne]

### COMPOSITION AND APPLICATION FIELD

Odourless waterborne wood preservative matt topcoat clear finishing is suitable for varnishing outdoor handicrafts such as door and window frames, blinds, shutters and main doors having "stable dimensions". These thick finishes are provided with excellent characteristics of elasticity, clearness, weatherability and resistance against blocking. Besides, they have low solvent contents and excellent flow levelling. The varnished substrate is soft to the touch, scratch resistant and demands little maintenance in the course of time. These products do not contain any biocides but contain a filter that adsorbes UV light, guarantees outstanding and long – lasting protection.

#### Particularly suitable timbers:

Fir wood – pine – swedish pine – yellow pine – hemlock – douglas fir – larch – canadian cedar – meranti- spruce  
(for meranti do a preliminary test to control the compatibility with the varnishing cycle used).

#### Unsuitable timbers:

Iroko – oak – cedrella – niangon – ash – teak – siberian larch  
(to treat these timbers contact our Technical Service Department).

### SPECIFICATIONS

This product is tested by Catas following the VOC content gas-chromatographic method UNI EN ISO 11890-2: 2007 and LEED certified EQ C4.2 as part of the rules 1113 for the architectural coatings, it has a low VOC, less water and less exempt in the range of 4% (w/w).

This product passed successfully Catas natural weathering test according to EN 927-3:2012.

#### Test results (\*\* means density values):

<b>Blistering **</b> ISO 4628-2	<b>Cracking **</b> ISO 4628-4	<b>Flacking **</b> ISO 4628-5	<b>Adhesion</b> ISO 2409	-
<b>0.0</b>	<b>0.3</b>	<b>0.0</b>	<b>0.0</b>	-
<b>Colour change*</b> (DE*) EN ISO 11664-4 Geom. d/8 sci	<b>Gloss change*</b> ISO 2813 (DGloss)	<b>Chalking**</b> ISO 4628-6	<b>Mould growth</b> (after cleaning)** ISO 4628-1	<b>General appearance</b> (after cleaning)** ISO 4628-1
<b>0.55</b>	<b>19.0</b>	<b>0.00</b>	<b>0.0</b>	<b>2.0</b>

\*Colour change is the result of measurements carried out on the samples exposed before and after testing.

#### Mechanical Characteristics

- Very Good Adherence
- Very Good Plasticity
- Good Covering

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### Available in the following Shades

- WT7300 DM 6% [±1]
- WT7310 MT 12% [±3]
- WT7330 SM 30% [±5]
- WT7350 SG 50% [±5]
- WT7370 GL 70% [±5]

### Physical Properties

Color	: Transparent/brownish
Specific gravity/g/cm <sup>3</sup>	: 1.05 [± 0.025]
Viscosity@25°C/Ford cup4/sec.	: 75 [± 7]
Weight Solids/%	: 41 [± 2]
Weight Solids blended	: N/B

### Drying Interval@25 °C

Dust Free	: 30 min.
To Touch	: 2 hr.
Recoating	: 4 hrs.
Handling	: 24 hrs.

## SURFACE PREPARATION AND TYPE OF SUBSTRATE

All timber species must be fully aged with a moisture content of less than 15%. Surface must be dry, clean and free from contaminations. Natural oil or gum must be removed by solvent cleaning.

### Single coat cycle

Apply directly on the totally dry basecoat or brush the substrate with a 120 grain brush (for water primers) .Always check the perfect drying of the impregnated substrate, as traces of solvent could damage the film of the finish coating afterwards. Besides, this inconvenience can cause small defect and scarce gripping of the film on the pieces impairing, as the result, the characteristic of outdoor resistance of the varnished substrate

Apply a 250-300 micron wet thickness in order to guarantee top outdoor resistance. Many coats have to be applied so that this thickness is achieved. Make sure that the air bubbles, carried by the varnish on the piece, are let out. Hasty applications bring about low quality finishing aesthetically speaking (scarce clearness, pinholes in the film which increase the absorption of humidity, film greying) and dripping in winter time as well.

## APPLICATION METHODS

In according with Catas certification (EN972-2 performance specification), the appropriate cycle to follow is:

- 2 coats of 150g/m<sup>2</sup> flow coating of wood preservative sealer water base for exterior WB711
- 3 coats of 150g/m<sup>2</sup> of top coat water base for exterior WT73X0

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For details of spray equipment contact Ritver Technical Services Department.  
The atmospheric temperature should be between 5°C to 35 °C and the relative humidity should not exceed of 70% during the application.

To insure maximum weathering resistance ,we advice applying 1 coat of water borne top coat and wait deep drying around 24 hrs, for apply second coat.

### PRODUCT PREPARATION

The products is supplied ready to use with spray gun. In the cold months of the year it is not advisable to thin down the product but it is better to use the pre-heater set between 35 and 45°C. In the warmer months we recommend water thinning from 5 to 10% max, and to use the pre-heater at a maximum temperature of 35°C

Suggested nozzles: airless – 011 fixed or 020 adjustable with pressure 4 atm/bar  
Spray gun – 2.5 mm. with pressure 3.5 atm/bar

It is advisable to wash the varnishing tools immediately after their use.

If a higher surface hardness and resistance to household chemicals is required, the product can be crosslinked with 5% of CP0101. The crosslinked product must be used within 4 hours from preparation, any leftover shall be mixed with fresh product 1:1 and the total quantity crosslinked again with 5% of CP0101

### SUBSEQUENT TREATMENT

After drying this product does not need any particular subsequent treatment.

We suggest a maintenance operation in the time (clean and dust removing, other coat of product applied when necessary) to assure better durability.

As waterborne varnishes have lesser resistance against aggressive chemical agents compared to traditional varnishes. We advise to clean the piece with water and a neutral detergent. Ammonia and-or alcohol-base solutions can seriously damage the varnish film. We suggest to wash the piece at least once every six months, in order to reduce as much as possible the chemical aggression of acid rain and of air pollution.

### PACKING & STORAGE

Available: 1Ltr and 5Ltr.

The product has a Shelf Life of 18 months, if the plastic drum is hermetically closed and well stored at 25°C,

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### SAFETY & FLAMMABLE

This material is flammable and must not be exposed to naked flames or direct sun light. Use only in well ventilated areas. In case of insufficient ventilation during application wear suitable respiratory equipment. Do not breathe vapor / spray. In case of contact with eyes rinse immediately with plenty of sweet water and seek medical advice. In case of contact with skin, wash immediately with soap and water or a recognized skin cleaner. Keep away from sources of ignition. No Smoking. Keep out of reach of children. For more and detailed information consult the Safety Data Sheets of WT73X0.