

Wood Preservative Matt Water Base

Product code: ECD258X

Composition and Application Field

Odorless waterborne wood preservative matt topcoat clear is finishing suitable for varnishing outdoor handicrafts such as door and windows, frames, blinds, shutters and dimensionally stable. The film provides excellent characteristics of elasticity, clarity, resistance to weathering and against blocking. It has low solvent contents and excellent flow levelling. The varnished substrate is uniform, water resistant and demands little maintenance. **This material is following the DCL Certification No. CL 16020409. It has VOC of 30 g/L. (GBRS limit is max. 130 g/L), Heavy Metals: Cadmium and Chromium (GBRS limit <500 mg/kg), Arsenic, Mercury and Lead (GBRS limit <100mg/kg, Formaldehyde ≤ 10 mg/kg).** The product does not contain any biocides but contain a filter that adsorbs UV light, guarantees outstanding and long lasting protection.

Particularly suitable timbers:

For wood – Pine – Swedish pine – Yellow pine – Hemlock – Fir Douglas –Larch – Canadian cedar – Spruce- Meranti.

(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 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.

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

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

Specification

Mechanical properties

- very good adherence
- very good plasticity
- good covering

Available in the following Shades

- ECD2580	DM 6%	[±1]
- ECD2581	MT 12%	[±3]
- ECD2582	SM 30%	[±5]
- ECD2583	SG 50%	[±5]
- ECD2585	GL 70%	[±5]

Physical Properties

Color : Transparent/brownish

Specific gravity g/cm3 : 1.05 [±0.025]

Viscosity Ford cup4/25°C (sec) : 75 [± 7]

Weight solid (%) :38 [±2]

Drying Interval:

Dust free	: 30 min. at 25°C
To Touch	: 2hours
Recoating	: 4 hours
Handling	: 24 hours

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

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SURFACE PREPARATION

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 METHOD

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

- 2 coats of 150g/m² coatings of wood preservative sealer water base for exterior ECD2445
- 3 coats of 150g/m² of top coat water base for exterior ECD258X

For details of spray equipments contact EVI Technical Department. The atmospheric temperature should be between 5oC to 35oC 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 topcoat and wait deep drying around 24 hours, for apply second coat.

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 maximum 18 months, if the container is tightly closed and stored at 25°C.

Safety & flammability

This material is non-flammable.

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. No Smoking. Keep out of reach to children. For more and detailed information consult the Safety Data Sheets ECD258X.