

ULTRAXYL Aqua VARNISH



TECHNICAL DATA SHEET

Description of the product

ULTRAXYL AQUA VARNISH is an **ecological** water-based wood stain, based on acrylic resins. It is ideal for the protection and decoration of interior and exterior wood constructions. It fulfils the requirements of the Commission Decisions 2009/543/EC and 2009/544/EC which establish the ecological criteria for the award of eco-label to outdoor and indoor paints and varnishes. It is easy to apply, spreads evenly and dries quickly. It provides an excellent finish, accentuates the natural beauty of the wood and provides excellent resistance from scratching, humidity and sun radiation. It is available in gloss, satin and mat finishes, which can be mixed at any ratio to obtain different grades of gloss.

Recommended uses

It is used for coating interior and exterior wood constructions (doors, frames, etc.)

Technical characteristics

Resin: Acrylic resin

Density: 1.05±0.02 gr/ml

(EN ISO 2811.01, 20°C)

Viscosity (during production): 75±10 KU

(ASTM D 562, 25°C)

Viscosity (during storage): 75±15 KU

(ASTM D 562, 25°C)

Solids b.w.: 40.5±3%

(EN ISO 3251)

Solids b.v.: 34.5±3%

(ISO 3233)

pH: 8-9

(ISO 976)

VOC (Volatile Organic Compounds): ULTRAXYL AQUA VARNISH belongs in the category A/e WB (Interior/exterior trim varnishes). Limit Value: 130 g/l. The ready to use product contains max. 65 g/l.

Shades

Available in transparent and in 57 shades via the tinting system **CHROMASYSTEM**. Satin variation is also available in 6 ready made shades.

Products

Gloss: Gloss 20°: 73±2

Satin 85°: 70±10

(EN ISO 2813)

Mat 85°: 25±10

Adhesion (Pull off on pitch pine): 7±2 Nt/mm² (A-A/B)

(EN ISO 4624)

Scratch test: 8±2 Nt (in 24 hours),

10±2 Nt (in 7 days)

(EN ISO 1518)

Accelerated weathering (500h QUV):

(EN ISO 11507)

Blistering: 0S(0)

(ISO 4628.2)

Cracking: 0S(0)

(ISO 4628.4)

Flaking: 0S(0)

(ISO 4628.5)

Resistance to water: No change is noted on the film

(ISO 2812)

Anti-sag index: 175±25 µm

(ASTM D 4400)

Mandrel test: 2 mm OK

(EN ISO 1519)

Anti-blocking: 10

(ASTM D 4946)

Spreading rate

Dry film thickness per coat: 35±5 µm.

Recommended total dry film thickness: 100±10 µm.

Spreading rate: 9.5±1.5 m²/Lt, per coat, depending on the finish of the product and the type of wood.

Application instructions

The wooden surface is thoroughly sandpapered and cleaned from dust, oil and abrasive residues. Stir well the product before use.

On new or bare wood it is recommended to apply first **ULTRAXYL AQUA TOTAL** water-based impregnating preservative. **ULTRAXYL AQUA VARNISH** is first applied as a primer, thinned up to 10% v/v with water. Apply further 1-2 coats without thinning. The second coat is applied 2-3 hours after the first and always after light sandpapering. If a third coat is necessary, it is applied after 10 hours and after sandpapering and removing dust.

Application Method: Brush, roller, spray.

Diluent: Water.

Thinning: Thin up to 10% v/v for the 1st coat. For the 2nd and 3rd coat no thinning is necessary.

[Application viscosity: 50±10 sec (DIN 53211/4 mm, 20°C), Nozzle size: 1.8 mm, Air pressure: 1-2 atm].

Tools are cleaned immediately after application with plenty of soap and water. Rinsing water and paint residues should not be disposed into rivers or sewers or thrown away with household refuse or poured away. Follow the advice of the local authority regarding the disposal and collection of unused paint.

Drying time

Dry: 50±10 minutes (ASTM D 1640).

Recoating time: 3-4 hours.

Application of 3rd coat: after 10 hours.

Drying and recoating time may be prolonged under conditions of low temperature and high relative humidity.

Coating system

Before the application of **ULTRAXYL AQUA VARNISH** apply the impregnating wood preservative **ULTRAXYL AQUA TOTAL** for the protection and decoration of the wooden surface. **ULTRAXYL AQUA VARNISH** can be applied 4-5 hours after the application of **ULTRAXYL AQUA TOTAL**.

Packaging

Available in 0.75 Lt and 2.5 Lt cans.

Storage

1 year, provided the cans remain closed and in normal storing conditions. After opening the can, the undiluted product can be preserved if the can is sealed tightly and stored in a dry room with temperatures 5-30°C.

Health and safety

Please refer to the labeling mentioned on the can and the Material Safety Data Sheet.

Notes

- Apply in temperature greater than 10°C. Avoid recoating after 5-10 minutes from application (depending on temperature and relative humidity conditions). Protect from frost.
- It does not contain hydrocarbons, heavy metals, dangerous substances and formaldehyde.
- For more information as to why this product has been awarded the Flower please visit the web-site: www.ecolabel.eu

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