

# Acqua UV – LED

Radiation curing single-component acrylic-polyurethane water-based lacquer for wooden floors



Varnishes &  
Finishing

Acqua UV – LED is a water-based lacquer suitable for manual finishing on the bench and industrial one by spray or with roller machines and subsequent crosslinking with traditional UV or LED lamps. It can be used alone or over any Tover water-based primer, even coloured. It allows to create wooden floors characterized by high chemical and trampling resistance.

## Acqua UV – LED

### Technical data at 20 °C and 60% R.H.

Appearance	yellowish liquid
Density	1.010 – 1.030 kg/litre
pH	7.0 – 8.0
Dust-free drying	10 – 15 minutes
Waiting before cross-linking	Minimum 2 hours
Sanding	Immediately after cross-linking
Dilution	If necessary, 10% with water.
Yield	130 – 140 g /m <sup>2</sup> (in two coats) 70 – 80 g/m <sup>2</sup> (as final coat)
Abrasion resistance after 7 days	11 mg – Taber Abraser, CS10 mole, 1000 g, 1000 revolutions
Degree of opacity (Glossmeter 60°)	Extra matt: 5 – 7 Matt: 12 – 15
Application temperature	> 10°C – Frost sensitive
Packaging available	2.5 – 10 liter buckets

### Certifications

### Application procedure

Check that the surface of the wood is clean and free from oils, waxes, greases or any previous paint. Mix Acqua UV – LED well before use. Apply a first coat of lacquer, wait for the water to evaporate completely and proceed with cross-linking with appropriate UV-LED lamps. After cross-linking, sand with a fine-grained abrasive, then remove the dust and apply a second coat of lacquer in the same way.

Alternatively, instead of the first coat of UV-LED lacquer it is possible to apply any Tover water-based primer. In this case, apply the primer according to the relevant instructions and the lacquer on the sanded primer. The lacquer is capable of cross-linking both with traditional UV lamps (mercury, gallium, etc.) and with LED lamps with appropriate power. It is always necessary to verify, even during production, that the cross-linking process is perfectly efficient.

### Colours

It is possible to obtain coloured effects in various ways as follows:

**Idrofondo Industry** – Apply two coats of Idrofondo Industry with a roller or spray (refer to the relevant technical data sheet for details). We recommend to sand the first coat of Idrofondo. Then apply a coat of Acqua UV – LED. If more than 24 hours have passed since the last coat of Idrofondo was applied, it is necessary to sand before applying Acqua UV – LED.

**TOVER**<sup>®</sup>



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**Belle Epoque** – Apply a coat of Belle Epoque (refer to the relevant technical data sheet for details). Let Belle Epoque dry perfectly then proceed with the finishing as indicated above, with two coats of Acqua UV – LED or one coat of water-based primer and one coat of Acqua UV – LED.

The application of water-based lacquers on wood treated with Belle Epoque must necessarily be done by spray or with a roller machine: it cannot be done manually on a bench due to the risk of partially removing the underlying colour.

**Tintoretto Design/Tintoretto Industry** – Apply Tintoretto according to the methods described in its technical data sheet. Once dry, and in any case not before 16 hours after applying Tintoretto, proceed with the finishing with two coats of Acqua UV – LED or with one coat of two-component water-based primer and one coat of Acqua UV – LED.

### Notes

- The evaporation time of the water is strongly influenced by the applied thickness and environmental conditions, such as temperature and humidity. Before proceeding with photocrosslinking, make sure that the water has completely evaporated. Photocrosslinking of the film that is not perfectly dry leads to a decrease in chemical and mechanical resistance.
- **Acqua UV LED is photosensitive. Do not keep the product directly exposed to light or heat sources.**

### Safety regulations

Product for professional use. Strictly comply with what is expressed on the labeling and consult the safety data sheet before using the product.

### Disposal

Dispose of unused product and empty packaging in accordance with local legislation in force.

### Certifications

The advice in this technical data sheet is given for indicative purposes and does not in any way engage our responsibility since the methods and conditions of use of the product are beyond our control. We recommend checking the actual suitability for the intended use.

Rev 01 – 14/11/2022. This technical data sheet replaces the previous one.