

Protect LED

Solvent-free finish for UV LED curing



Varnishes &
Finishing

Protect LED is a water and solvent-free mixture of acrylic oligomers, suitable for wood finishing with roller machines and subsequent photo-curing under UV LED lamps. It leaves a natural looking wood surface, very resistant to chemicals and high traffic.

Protect LED

Technical data at 20 °C and 60% r.h.

Appearance	Viscous yellowish liquid
Density	1,090 kg/litre
Waiting time before cross-linking	None
Sanding	Immediately after curing
Consumption	20 – 25 g/m ² (two coats)
Abrasion resistance after 7 days	10 mg – Taber Abraser, CS10 wheels, 1000 g, 1000 revolutions
Gloss (60°)	Matt: 10 – 15 gloss
Application temperature	> 10 °C
Storage	12 mounts in original sealed containers
Tool cleaning	Solvente di lavaggio S23 or acetone
Packages	2,5 and 10 litre cans

Application procedure

Check that the wood surface is clean and free from oil, wax, grease or any previous paint; sand the wood with 100 – 120 grain. Carefully mix Protect LED before use. Apply a first coat of product, taking care not to exceed the applied quantity (for this purpose we recommend that the machine is equipped with a pad to spread the product and remove the possible excess). Proceed with curing with a UV LED lamp. The ideal distance between the lamp and the wooden surface is between 2.5 and 3.0 cm. Always check the correct curing regularly before production and if necessary adjust the parameters. After curing, sand with a fine-grain abrasive (from 240 upwards), then apply a second coat in the same way; for the second coat a smaller amount of product is generally needed.

Colouring

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

Protect LED Color Protect LED is also available in a pigmented version. Apply the coloured version according to the methods already described. Available in the four basic colours: white, black, yellow, red, all in the matt version. The colours are mixable in any proportion with the neutral one. Other colours are available upon request.

Tintoretto Design to be applied according to the methods indicated in the technical data sheet. Make sure that Tintoretto Design is completely dry, then apply one or two coats of Protect LED. If only one coat of product is applied, the weight must be at least 13 – 14 g/m².

Belle Epoque to be applied according to the methods described in the technical data sheet. Complete the cycle with 2 coats of Protect LED.

Certifications



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Notes

The quantities of product to be applied refer to the finished oak with grain 120; the weights can vary significantly depending on the wood essence and the processing to which the wood has been subjected. Therefore it is recommended to carry out a test to determine the exact quantity needed.

The degree of gloss can vary significantly depending on the weight applied: larger quantities of product applied correspond to a more glossy appearance.

Protect Led is photosensitive. Do not keep the product directly exposed to light or heat sources.

Do not apply Protect LED on wood treated with reagents.

Do not apply on water-based primers.

Safety regulations

Product for professional use: Strictly comply with what is stated on the label and consult the safety data sheets before using the product.

Disposal

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

Certifications

The advice in this technical data sheet is given as an indication 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 effective suitability for the intended use.

Rev 03 – 27/02/2025. Current Technical Data Sheet replaces the previous one