



# TOPLASUR UV PLUS

## PRODUCT IDENTIFICATION

Toplasur UV Plus

## DESCRIPTION

Toplasur UV Plus is a highly durable coating that gives wood long-term protection against weathering.

At the same time it provides a decorative colour and enhances the wood surface. It is ideal for protecting wood exposed to worse effects of the weather (sun, uv radiation, rain, frost). The surface appearance has a gloss finish.

## COMPOSITION

Alkyd resins, weather-resistant pigments impermeable to uv rays, uv absorbers, uv filters, free radical scavengers, water-repellent substances and dearomatized organic solvents.

## PROPERTIES

Toplasur UV Plus is a high build stain that accentuates the wood grain, giving it a silky gloss finish. It is thixotropic, which is why it is easy to coat and does not drip from a brush. As it contains uv filters and uv absorbers it also protects wood effectively against damaging sunlight.

The coating does not flake and can be easily renewed.



## APPLICATIONS

This product is used to protect the surfaces of all types of wood both inside and outside a building. It is particularly suitable for protecting windows and doors because it increases their dimensional stability, as well as for deciduous hardwoods.

## COLOUR SHADES

Colour shades are available on standard colour chart and on mixing systems HG MIX. The colour charts are produced on selected spruce wood. Because wood is a natural material slight differences in shade may appear on wood of different quality. On other types of wood shades can differ considerably, which is why we always recommend a preliminary test coat be applied on a small sample of wood.

The colour shade of Toplasur UV Plus on wood also depends on the previous wood treatment and the number of coats. On rougher, poorly sanded surfaces the colour is more distinctive than on smoother surfaces. A stronger, fuller colour is obtained by applying multiple coats.

Individual colours can be intermixed in order to obtain numerous colour shades. The colour mix can be tested on a small board that should have the same surface finish as the wood to be coated.

## PREPARING THE BASE

New wood must be dry (humidity around 15 %), clean and finely sanded and, for external use, coated with Base. When refreshing old woodstain coatings, prepare the surface according to the instructions under item "coat maintenance".





## WOOD OUTSIDE

First protect wood outside of buildings with base, which provides preventive wood protection against bluestain, rot and wood insects.

Then apply Toplasur UV Plus in the prescribed quantity. It is good to protect wood on all sides, and wood panelling at least with one coat on the back. Under certain conditions wood can also be excessively moistened (water seeping on the back side after heavy rain).

On less exposed surfaces (protected from the effects of the sun and weather – under a roof) 1 l suffices for 12–16 m<sup>2</sup>. Generally speaking, this is achieved with two thin coats. If a fuller appearance of the coating is desired, apply Toplasur UV Plus in two coats somewhat copiously so that consumption is 1 l for cca. 10–12 m<sup>2</sup>.

On the most exposed parts or to protect the dimensional stability of wood (windows, doors) apply a sufficient quantity of Toplasur UV Plus so that 1 l covers 6–10 m<sup>2</sup> of wood. As a rule, this is possible in three coats. For non-standard quality timbers the number of coats must be adapted to the stated criteria of coverage.

If you wish to retain the natural appearance of wood outdoors, use colourless Toplasur UV Plus, which offers protection against uv radiation.

## WOOD INSIDE

Protecting wood with Belles in living areas is not necessary except for damp places (kitchens, bathrooms, basement).

Inside a building Toplasur UV Plus is used for decorative wood protection, which is why the coat quantity is not important. Usually an attractive, smooth surface is desired, which means that at least two coats must be applied. Gently sand the surface after the first coat (sand paper 220). Coverage can fluctuate over a very broad range from 10 m<sup>2</sup> for a fuller appearance to 16 m<sup>2</sup> or even more m<sup>2</sup> per litre of Toplasur UV Plus in two coats. Apply at least one coat of Toplasur on the back side of boards.



## METHOD OF APPLICATION

Mix Toplasur UV Plus well before use and apply undiluted using a brush or roller. Take care to apply it well and evenly with strokes of the brush or roller so that the prescribed quantity is used to cover 1 m<sup>2</sup> of surface area. Spraying Toplasur UV Plus is possible only in combination with brush application. Using a combination of spraying and coating with a brush considerably shortens the total time of work, enhances the wood grain and evens the coat thickness of Toplasur UV Plus.

Of course, spraying requires some experience and observance of the instructions for use:

- » Spray from a distance of 10–15 cm, otherwise too much coating is sprayed into the surroundings.
- » Setting the quantity of coating depends on user experience. The more experience the user has, the faster the work and therefore the larger the flow of coating applied.
- » Larger areas are sprayed with a flat jet of coating at right angles to the direction of spraying.
- » Edges can be sprayed with a round jet or a flat one parallel to the direction of spraying.
- » Spray in thin layers so the coat does not run. The final coat thickness must conform to the prescribed consumption.
- » Ensure that the nozzle is always well cleaned.

We advise against inexperienced users spraying this coating.

## DRYING

The coating is dry in 6–10 hours under normal conditions (20 °C, 65 % relative air humidity). Apply another coat after 24 hours or once the previous coat is completely dry. The most suitable temperature for working is 15–25°C. Relative air humidity





should be below 80 %. At higher temperatures the drying time is shorter; at lower temperatures longer. The drying time is extended also when applying thicker layers of coating. We advise against working at a temperature lower than 5 °C.

Avoid coating in strong sunlight and immediately after rain. Higher air humidity also extends the drying time.

In spring and autumn, when temperatures are already lower and air humidity in the morning and evening is higher, coat the wood surface in the middle of the day when temperatures are higher and wood moisture content and air humidity lower. We advise against coating at low temperatures and very high humidity.

When coating garden furniture or wooden elements that are subject to mechanical load, dry for at least one week before use.

## COVERAGE

Coverage strongly depends on the type and quality of wood, method and quality of finish and on the method of application.

As a rule, coverage is greatest with the first coat. With respect to the type of wood, consumption is greatest for strongly absorbant types of wood (e.g. Sapwood pine) and least for non-absorbant deciduous hardwoods (e.g. Oak). Less coating remains on smoothly finished surfaces of the same type of wood, which is why consumption is also less. Most smooth of all is a surface finished by quality smooth planing or sanding. Less smooth is a poorly planed surface and least of all sawn wood.

For the second and third coat consumption or coverage is less or considerably reduced depending on the type and quality of wood, previous coats and practice of the contractor.

1 l of Toplasur UV Plus coats:

- » in one (first) coat cca. 16 m<sup>2</sup> (sapwood pine, renewing old, cracked wood) to 25 m<sup>2</sup> (very smooth pine, oak),



- » in two coats cca. 8 m<sup>2</sup> (sapwood pine, poorly finished surface) to 12 m<sup>2</sup> (smooth surface),
- » in three coats cca. 6 m<sup>2</sup> (rough surface) to 10 m<sup>2</sup> (smooth surface).

## CLEANING TOOLS

After use clean tools and accessories with white spirit or other solvents for synthetic paints.

## COAT MAINTENANCE

Refresh the coat of Toplasur UV Plus applied to new wood exposed to weathering after one year with another thin coat of Toplasur UV Plus, thus improving all physical damage to the coating, damage arising from the action of the wood itself (cracks) and microcracks in the coating.

Then the coating should be inspected every year and any physical damage repaired locally. In case the coating has worn too much, refresh the entire coat. Deterioration of the coating is determined by its general appearance and by performing the water absorbency test. Apply several drops of water to the surface. If the water is absorbed quickly through the coating into the wood and forms a wet patch, it is high time to refresh the coat.

Before recoating, the surface must be suitably prepared by washing with water using a detergent and then dried. If that is not feasible, for whatever reason, gently sand the surface and remove dust (using sandpaper of grain size 180–220). The number of required coats when refreshing depends on surface wear.

When refreshing on time, coat the surface with one or two coats of Toplasur UV Plus. If the coat has decayed a lot and has already etched into the wood, the surface must be sanded down to healthy and solid wood, then coat as for the first wood protection coating.





Wood protected with colourless Toplasur UV Plus must be regularly inspected and damage repaired immediately. As it is colourless, any damage is more visible than with coloured coatings.

Wood protected with Toplasur UV Plus is restored by first removing dirt from the surface using a broom or plastic brush, then applying one coat again (1 l for 18–22 m<sup>2</sup>). If the surface coat is strongly decayed, we recommend two coats of Toplasur UV Plus (1 l for 12–16 m<sup>2</sup>).

Wooden elements should be restored before old stain completely decays. To do so use Toplasur UV Plus in the same shade as was used in the first coat. With each restorative treatment or repeat coat on a surface already coated this shade becomes darker. If you want to reduce the darkening effect, for restoration prepare a mix of coloured and colourless Toplasur UV Plus. The mix must not contain more than 50 % colourless Toplasur UV Plus.

The renovation process can be facilitated by protecting the lower part of the wooden element, where the coat is usually more decayed, with a coat of Toplasur UV Plus of normal thickness. Coat the upper part with a thinner layer to make the colour shade between the old and new coat identical. The durability of the coat and time of restoration depend on the type of wood, method of treatment and number of coats, but mainly on exposure of the wood to the weather and other influences. In very exposed positions (on the south side, high up in the hills, for wood not structurally protected by roofing, etc.) We recommend you inspect on a yearly basis how much of the coating has already decayed.

## WARNINGS

Because woodstains are translucent coatings, their final appearance is affected, among other factors, by the colour of the base or surface. For each additional coat – also when refreshing – the coated surface becomes darker. This can be partly avoided by coating the surface with a lighter shade of woodstain when refreshing the coat. The



effect of a darker surface when refreshing is also reduced if a colourless woodstain is added to a coloured one and the prepared mix is then applied to the surface. We advise against refreshing darker coats with colourless Toplasur UV Plus because it gives the surface a slightly milky appearance.

Toplasur UV Plus is an alkyd coating. It is characteristic for alkyd coatings to turn yellow in the dark (wainscots in dark places, the sides of wooden elements and units beside walls, indented door post frames concealed when the door is closed, etc.). This is most noticeable for white shades. Yellowing can also cause a change in shade (e.g. Blue to green). This problem does not occur when using Toplasur UV Plus outdoors as this product is sufficiently exposed to the light every day. When used indoors, however, in such cases we recommend the use of the stains interior.

While working observe the instructions for use of this product. Wood is a natural material that expands and contracts. Coats that are too thick cannot follow wood expansion, which is why they can crack and even peel off. Coats that are too thin have to be refreshed more often.

The appearance of colourless Toplasur UV Plus in a vessel can be slightly milky and brownish. When coating light types of wood this milkiness or soft brownish shade is barely noticeable.

## STORAGE AND HANDLING

Store Toplasur UV Plus in its original, well sealed packaging at a temperature of below 30 °C. Keep out of reach of children and animals and away from foodstuffs. Pour unused agent from large packaging into smaller packaging to the brim and seal well.

## SHELF LIFE

In its original sealed packaging this product can be used by the date printed on the packaging.





This product can be used after the expiry date if there are still no signs of coagulation (after shaking well and stirring, it must be liquid enough to coat smoothly using a brush).

## ENVIRONMENT

Do not pour coatings into the drainage system, surface water courses or anywhere in the environment. Use all contents till empty. Dispose of packaging or unused product as special waste. For collection centres ask authorities in your country.

## REGULATIONS

In connection with regulations governing product safety, safety at work and transport, read the material safety data sheet.

## FURTHER TECHNICAL INFORMATION

Can be obtained from our technical advisors on: +386 (0)51 347 545, +386 (0)41 783 723 or on the website [www.belinka.com](http://www.belinka.com).

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