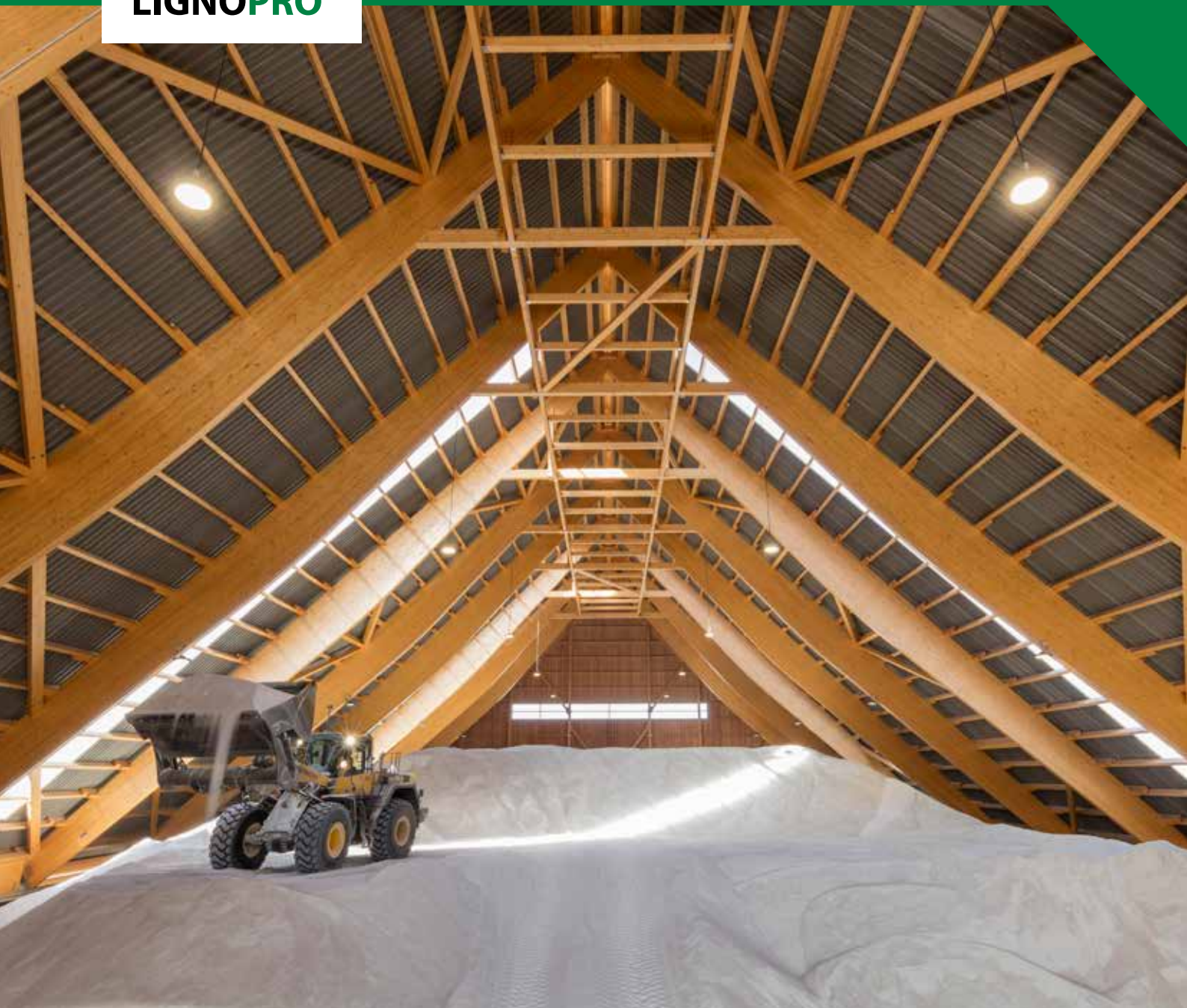


BSH-Varnish

Sustainable protection for glulam

LIGNOPRO®



BSH-Varnish protects

BSH-Varnish protects glued glulam against external influences such as precipitation, UV radiation and contamination, while simultaneously preventing the formation of cracks and mould.



Easy-to-clean surfaces

The waterproof, closed film of our BSH-Varnish coating makes it easy to remove site dirt and preserve the desired appearance of glued laminated timber.



Minimising cracking

Timber treated with BSH-Varnish absorbs only very small amounts of moisture. Swelling of the outer wood layers is prevented, significantly reducing cracking during drying.



Active environmental protection

BSH-Varnish eliminates the need for complex foil packaging. This saves resources and protects the environment.



UV protection

Micronised pigments or special UV absorbers in BSH-Varnish ensure optimum UV protection and reduce darkening of the wood.



The waterproof coating film ensures reliable protection of the wood.



Mould is a thing of the past

Without penetrating moisture, mould can no longer develop. Discolouration is largely avoided.



Attractive design options

In addition to comprehensive protection, coating your glued laminated timber with BSH-Varnish offers decorative design options and significantly increases the value of your products.



H
C



High-performance coating

The high-performance coating with BSH-Varnish is safe to apply, **easy to process**, provides excellent flow, dries quickly and is blocking-resistant.

BSH-Varnish also provides a high level of moisture protection (rain / water vapour), protection against contamination, UV protection (prevents greying) and reduces cracking. It also offers strong economic advantages: first and foremost, the consistent preservation of the value of glued laminated timber and efficient application. An excellent price-performance ratio and the potential increase in product value through decorative design complete the overall concept.

Reliably

Delivery of
glulam



protected

Convincing performance instead of “token protection”

Already during transport, your glued laminated timber is exposed to a wide range of influences. Road dirt, de-icing salt and contaminated lashing straps can cause significant surface damage. During the construction phase, additional contamination may occur from other trades (cement dust, mortar, etc.) or rolling oil from profile metal sheets. Weather-related damage, unpredictable exposure periods and UV-induced darkening are further factors that can adversely affect your products.

Temporary exposure phase

Dust / UV radiation / moisture / mechanical stress



Outdoor exposure



- WATER ABSORPTION
- DARKENING / GREYING
- SOILING
- BIOLOGICAL ATTACK

Completion of the construction project



Climate change



- CRACKING

BSH-Varnish effect

Untreated or poorly coated wood surfaces are highly susceptible to dirt and UV radiation. Attempts to restore the original appearance often result in patchy surfaces. The time required is immense, yet the result is usually unsatisfactory. Building owners and architects are rarely pleased.

BSH products protected with BSH-Varnish look exactly as intended at final inspection – even if construction delays extend the exposure period by several days. There are no arguments and no costly, time-consuming rework that disrupts your tight schedule.

Have you ever tried to **clean a soiled BSH beam?**



Video





A sustainable solution

Between delivery of the glued laminated timber and completion of the construction project, exposure to environmental influences is usually unavoidable. UV radiation, moisture and dirt can quickly cause considerable damage, particularly to appearance. Reworking is time-consuming, expensive and frustrating.

Restoring the original appearance is often difficult, sometimes impossible. Prevent such damage with a high-performance BSH-Varnish coating while simultaneously increasing the value of your products through decorative enhancement.

- ✓ Reliable application with excellent flow, fast drying and very good blocking resistance
- ✓ Consistent preservation of value and efficient processing
- ✓ Excellent price-performance ratio and enhanced product value through design options

A close-up photograph of a light-colored wood surface, possibly birch or maple, showing its natural grain and texture. Numerous small, clear water droplets are scattered across the surface, some larger than others, creating a sense of moisture and highlighting the wood's natural properties. The lighting is soft, emphasizing the organic texture of the wood.

Hydro

HydroX



Durability through optimum moisture protection

HydroX technology is optionally available. The coating film is adjusted to be extremely hydrophobic, ensuring additional moisture protection. In addition to the visible water-beading effect, a long-term protective effect (water resistance) is achieved, significantly reducing the swelling and shrinkage behaviour of the wood.

BSH-Varnish variants

BSH-Varnish was developed to protect glued laminated timber and cross-laminated timber from contamination and weathering, as well as for decorative finishing.





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RSH-Varnish

BSH-Varnish Product overview

Tailor-made solutions for typical challenges

BSH-Varnish was developed to protect glued laminated timber and cross-laminated timber from contamination and weathering, as well as for decorative finishing. It is a water-dilutable intermediate coating based on finely dispersed pure acrylic resin and compatible with all commonly used adhesives.

The coating material is low-odour, film-forming, blocking-resistant and easy to process. A long open time allows smoothing in a second application step. The product forms a clear or transparent, satin-gloss or matt film with medium build, allowing the wood grain to remain visible.

The coating film is highly weather-resistant and does not flake. Micronised lightfast pigments provide UV protection and prevent greying caused by lignin degradation. Effective UV protection is only achieved with sufficient pigmentation. Even without pigmentation, LIGNOPRO® 841 reduces darkening.

The coating also provides moisture regulation by protecting the wood from penetrating water while remaining breathable. Extreme hydrophobic protection is optionally available (LIGNOPRO® 842). LIGNOPRO® 843 combines extreme hydrophobic protection with UV resistance.

Certificates

Tested according to DIN EN 71-3 (“Safety of toys”) and DIN 53160 (“Resistance to saliva and perspiration”)

Environmental Product Declaration according to ISO 14025 and EN 15804 Declaration number: EPD-FEIKUS-20160084-IBG1-EN

eco-bau registration no.: 201701.1101

- Excellent suitability for MINERGIE-ECO
- Complies with ECO-BKP priority level 1



www.btauer-engel.de/uz12a

The products LIGNOPRO® 840 and LIGNOPRO® 841 are certified with the Blue Angel eco-label (DE-UZ 12a, edition 2019), representing outstanding environmental performance and sustainability.

- LP841: Certificate no. 42774, valid from 27 August 2025
- LP840: Certificate no. 42773, valid from 09 October 2025

LIGNOPRO® 840
The economically efficient solution

LIGNOPRO® 841
Effective UV protection

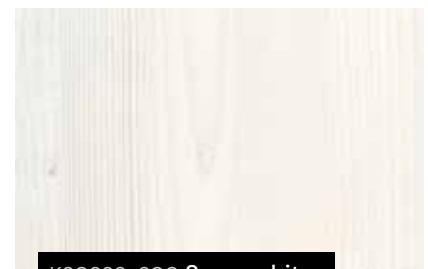
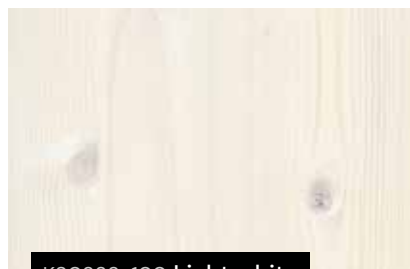
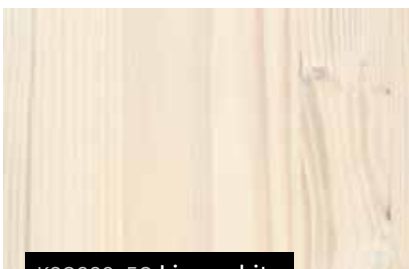
LIGNOPRO® 842
Extreme hydrophobic protection

LIGNOPRO® 843
High-end protection for special applications

PRODUCT	LIGNOPRO® 840 BSH-Varnish	LIGNOPRO® 841 BSH-Varnish UV	LIGNOPRO® 842 BSH-Varnish HydroX	LIGNOPRO® 843 BSH-Varnish HydroX UV
DESCRIPTION	Biocide-free special coatings based on acrylic resin with high solids content for a hydrophobic and dirt-resistant BSH surface. Keeps the wood breathable (diffusion open).			
WATER REPELLENCY	●●●○○	●●●○○	●●●●●	●●●●●
UV PROTECTION	●●●○○	●●●●●	●●●○○	●●●●●
SURFACE FINISH	satin gloss / matt			
COVERAGE	approx. 100-140 ml/m²			
CONTAINER SIZES	20 l / 1000 l			
COLOURS	KS0000 clear, KS1000 natural, standard colours			
RECOATABLE	Yes		after mechanical surface preparation	

Our colours

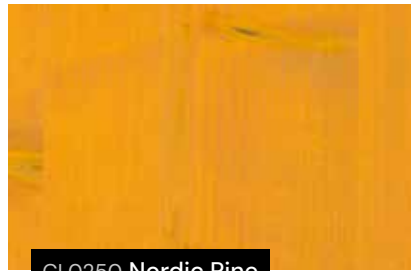
BSH-Varnish is available in **standard colours** and on request, also in custom colours. By default, BSH-Varnish is supplied in a satin-gloss finish, but is also available in a matt version.



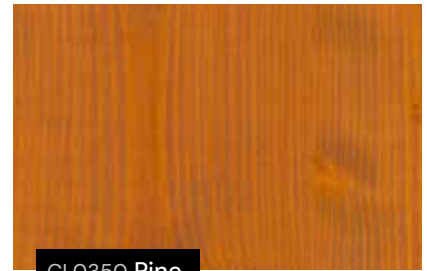
More colours:



CL0150 Ash



CL0250 Nordic Pine



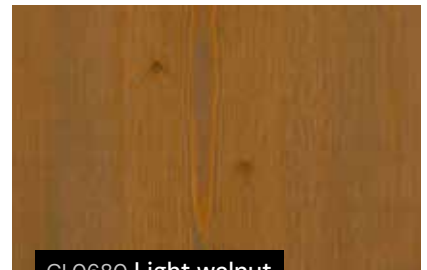
CL0350 Pine



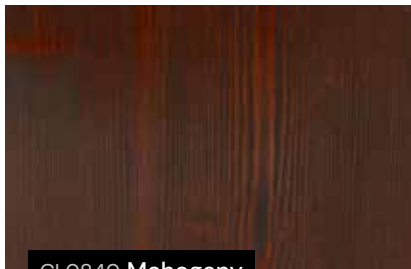
CL0430 Larch



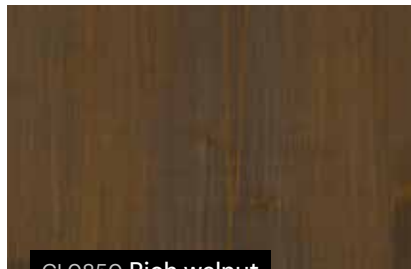
CL0660 Light oak



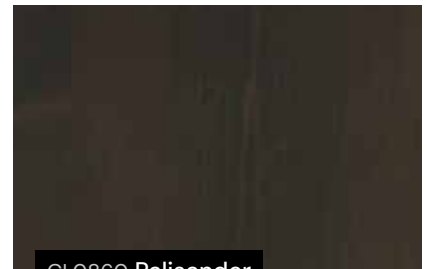
CL0680 Light walnut



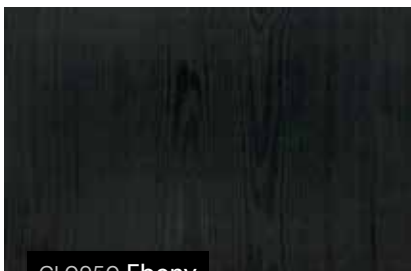
CL0840 Mahogany



CL0850 Rich walnut



CL0860 Palisander



CL0950 Ebony

Important notice: Colour deviations in practical application may occur due to printing limitations. Our colour charts provide a more accurate reference. If colour accuracy is critical, we recommend producing a sample application.





Weissenstein cable cart, neue Holzbau AG, Lungern





New X-LAM production hall, Derix
LIGNOPRO® 840, BSH-Varnish RAL 3001



Rulantica, Europa-Park Rust, Holzbau Amann GmbH



Production hall Laudenschach, Dornbirn
LIGNOPRO® 841 BSH-Varnish UV





Ice arena Villingen-Schwenningen, Holzbau Amann GmbH



Over 30 years of experience. We are the supplier to the BSH industry.

With our BSH-Varnish products, we have sustainably transformed the market for BSH coatings.

Coating long glued laminated beams in engineered timber construction is a particular challenge. Together with leading companies in the timber industry, we have developed products that offer excellent workability, outstanding protection and a sales-promoting appearance. At the same time, we are able to offer these products at an excellent price-performance ratio.

We are also happy to formulate coatings according to your specific requirements or adapt existing formulations to suit your individual needs.

A high-quality BSH coating must have a sufficiently high solids content in order to perform effectively. Additional options such as hydrophobic protection, UV protection or film protection increase the level of protection and cover particularly demanding application scenarios.



A good “beam protection system” significantly increases the value of the component: on the one hand by effectively preventing contamination and cracking caused by swelling and shrinkage movements, and on the other hand by providing a clear visual upgrade. Colour design can support the architectural concept of the building, and factory-applied coating can save the client considerable cost.

Our application engineering specialists will be pleased to assess your operational conditions on site and recommend suitable tools and application methods. This allows you to reduce costs through optimised application volumes and short processing times.

A wide range of container sizes is available to meet every requirement: practical 20-litre containers for smaller quantities and special colour shades, and IBC containers (1000 l) with outlet valve for industrial use. We also offer reliable delivery service for subsequent supplies in the event of touch-up work or extensions.

Consistent colour shades and uniform product quality ensure long-term value retention of your products and maintain your company’s reputation through reliable service to the client or project developer.

- ✔ Environmentally responsible formulations in premium quality
- ✔ Proven standard products and customised solutions
- ✔ Standardised adjustments (film protection, viscosity, HydroX, etc.)
- ✔ Professional application engineering support
- ✔ Custom colours available
- ✔ Sprayable qualities
- ✔ Express delivery service at short notice
- ✔ Container sizes for every requirement, from 20-litre containers to IBCs (1000 l)



“We have sustainably transformed the market for BSH coatings with our BSH-Varnish products.”



Wood coatings for industrial appli- cations

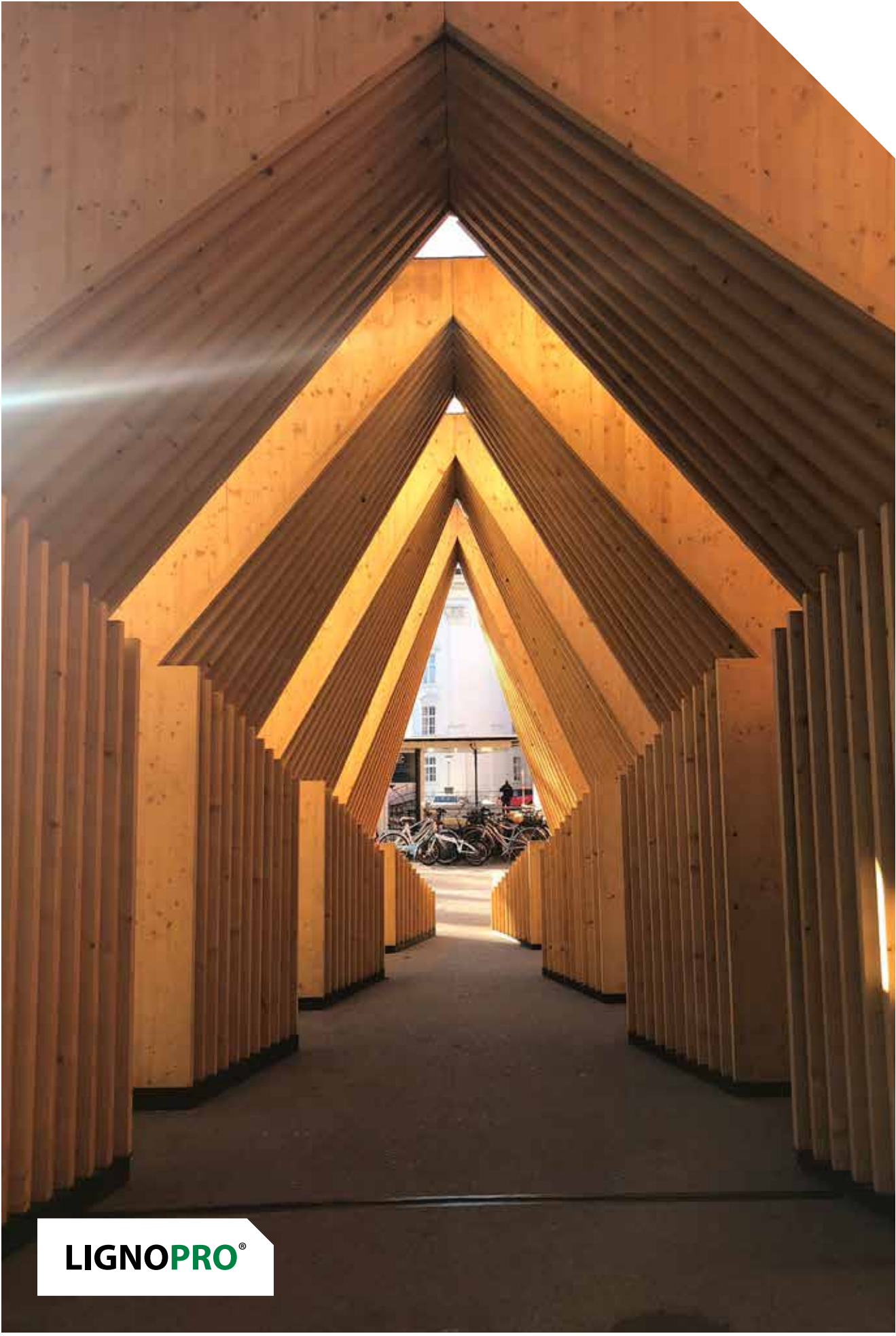
Koch & Schulte has developed a product range with LIGNOPRO® that provides tailored coating solutions for typical industrial application scenarios.

Based on our proven wood coating systems, LIGNOPRO® stands for formulations individually adapted to application-specific requirements. In addition to excellent primary protective performance, the products are also designed for optimum machine compatibility.

Whether dipping, flood coating, manual spraying, industrial coating or vacuum processes — with LIGNOPRO® from Koch & Schulte you combine maximum protection with optimised processing workflows and consistently high production quality.

Furthermore, we offer the possibility to customise our products to your specific requirements and thereby optimise your production processes.

With our innovative and tailor-made products, we have already convinced many well-known manufacturers.



LIGNOPRO®

Adding value to
your wood

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