

With Teknos you're covered



Industrial Wood





Coating solutions from Teknos

Defending exterior joinery against the elements



Teknos exterior wood coatings provide outstanding protection



Easy application and fast drying facilitate production.

If there is anyone in Europe who understands wood and how to protect it from the elements, that company is Teknos, the manufacturer of Teknos Aqua and GORI Industry coating brands.

Our philosophy at Teknos is straightforward. We believe the optimum combination of: Timber, selection, joinery design, process control and appropriate coating system is the key to extending performance and service life. Our products are designed to meet a wide range of process and end use requirements and to work together in compatible systems which resist rain, sun, heat and cold, are easy to maintain, and complement the function and style of exterior wood products.

Impregnation is essential with sapwood and a sensible precaution with heartwood in view of its varying quality.



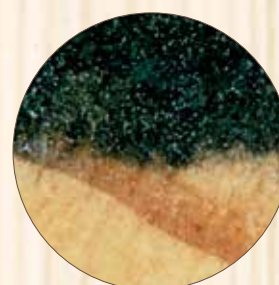
OAK – Heartwood



PINE – Sapwood

Comparison clearly shows the difference between untreated wood and wood treated against bluestain.

Untreated



Treated

Teknos coatings are formulated to keep your products looking attractive year after year, resisting the elements, maintaining appearance and value. Just as important, they're designed for application convenience and efficiency—to go on fast and easily regardless of the technique used.

Teknos coatings are perfect for wood and wood/aluminium windows and doors, cladding, garden furniture, balconies, and playground equipment. They're available in a wide range of translucent and an almost limitless selection of opaque colours: All supplied in single component, water borne formulations. Our products and systems are EN approved, meet relevant European environmental standards and are backed by one of Europe's most experienced technical service and support organisations. We believe you can only come to one conclusion... With Teknos you're covered!

Wood Resistance Classifications (according to EN350-2)

	Softwood	Hardwood	Durability category Heartwood	Durability category Sapwood
Spruce	X		4	4-5
Hemlock	X		4	4-5
Pine	X		3-4	4-5
Larch	X		3	4-5
Oregon Pine	X		3	4-5
Mahogany		X	2	4-5
Oak		X	2	4-5
Dark Red Meranti		X	2-3	4-5
Light Red Meranti		X	3-4	4-5
Teak-Afzelia		X	1	4-5
Framiré		X	2-3	4-5
Iroko		X	1-2	4-5

1 = Very durable

2 = Durable

3 = Moderately durable

4 = Slightly durable

5 = Not durable



A company wide commitment

Quality starts well below the surface. Using “state of the art” technology, particle sizes of pigments and binders have been progressively reduced, often to less than 100 nanometers (100 nanometers = 0.1 microns). The resulting improvements in flow, penetration and saturation have raised quality to new levels.

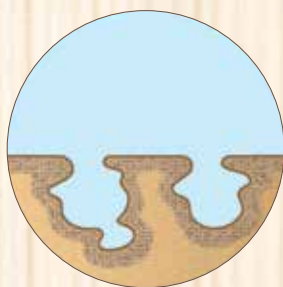
Teknos is highly committed to environmental responsibility and has made EU environmental regulations one of the cornerstones of its development process. All Teknos exterior wood coatings comply with the known requirements of REACH as well as the VOC. All wood preservatives are approved according to the BPD Directive. To avoid future problems we have also eliminated the use of raw materials that may be prohibited when REACH is fully implemented.

Teknos exterior wood coatings stand for quality and environmental responsibility on every parameter.

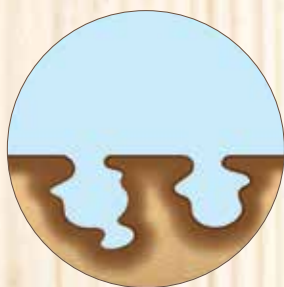
Effective resistance to moisture

Teknos coating systems are carefully designed to safeguard your products against moisture. With both vacuum and superficial treatments, wood is

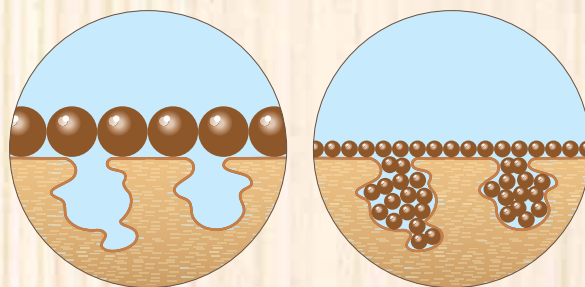
Impregnation and wood preservative fluid contains actives that penetrate the wood



Fluid evaporates but actives remain to protect the wood against fungus and decay



The optimal protection and adhesion achieved through formulation technology that enables nano particles to penetrate deeply into the wood



thoroughly preservative treated and each layer in the system, from wood preservative to topcoat, contains highly effective fungicides. Teknos products are EN approved as required and our wood preservative systems and combi primers are typically approved to EN 152 against blue stain and EN 113 against decay.

Superior adhesion

Teknos coating systems provide outstanding adhesion. Primers, intermediates and topcoats are all formulated on a selection of compatible, premium quality binders, creating a high degree of synergy in the final coating system.

Excellent stain locking

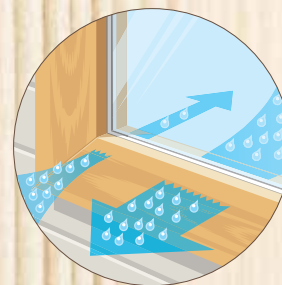
Specially developed products, in both the Teknos Aqua and GORI Industry brands, ensure excellent result on all timber species typically used in exterior joinery; resisting extractive staining on hardwoods and minimising discolouration from softwood knots. These water based antibleed and knot sealer products lock in extractives, significantly reducing opaque topcoat discolouration.



Quality and Environment



Water is repelled while moisture is allowed to escape



Low liquid-water permeability

Binder technology and the use of high-quality raw material combine to provide superior protection from exterior water damage. Teknos coatings virtually eliminate temporary cosmetic problems caused by moisture, such as white spots, and continue to repel water effectively over time.

High water-vapour permeability

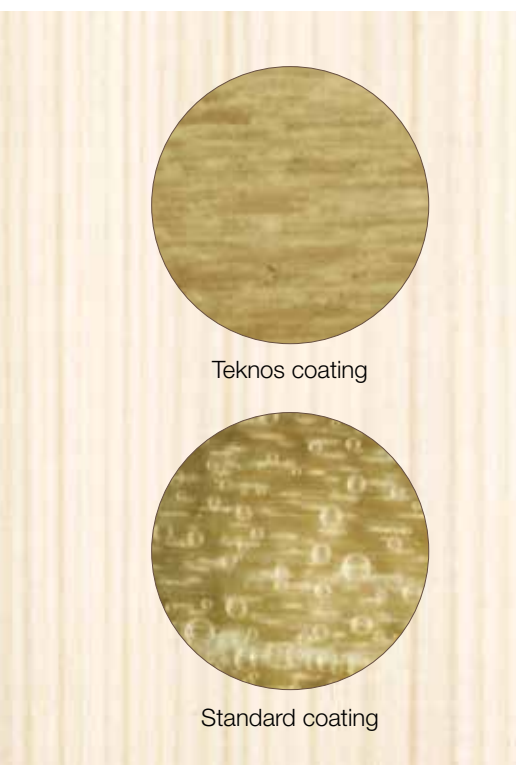
Teknos coatings also allow wood to breathe; essential for keeping windows and doors in top condition. Teknos micro porous coating systems allow moisture vapour to pass through, allowing the timber moisture content to maintain equilibrium through the seasons and reduce the risk of moisture accumulating in the wood, eventually causing blue stain or decay.

Combined hardness and elasticity

Teknos coatings dry to a hard but elastic finish. They penetrate deeply into pores to form a protective, flexible shield, which resists cracking due to the natural movement of the wood and maintains surface integrity.

Highly translucent

Teknos translucent coatings are exactly that—translucent. They dry to a clear, non-hazy film, allowing the natural figuring and surface characteristics of the timber to be highlighted.



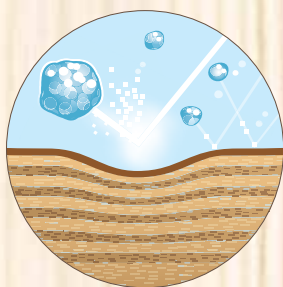
Teknos coating

Standard coating

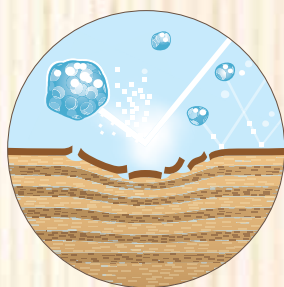
Teknos coatings virtually eliminate the problem of micro-foaming – the formation of air bubbles that can burst and admit moisture.

Hard yet flexible surface resists cracking.

Teknos coatings dry to a fully transparent finish.



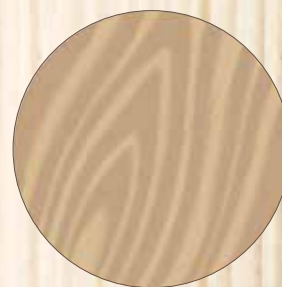
Teknos coating



Standard coating



Teknos coating



Standard coating



Years of intensive research and testing result in high-quality exterior wood coatings.



Keep the youthful look



Light-fast pigments and UV protection guard against sunrays



Improved dirt-pickup resistance hinders the formation of surface mould.

The key to long and trouble free service life lies in selecting the optimum coating system for the end use, exposure conditions specified and choosing products tailored to the joinery manufacturing process.

Each layer in the Teknos Aqua or GORl Industry system has been carefully formulated both for its specific purpose, and to work in synergy with the other products in the system to achieve maximum performance. Teknos joinery products include:

- Vacuum impregnation, wood preservatives and combi primers product to preserve and prime the wood
- Primers to fill the wood's pores and provide an anchor for intermediate or topcoats
- Specialist primers and intermediate coats to block and inhibit tannin staining
- End grain and construction joint fillers to protect the most vulnerable areas of exposed joinery
- Intermediate products to fill the pores of coarser wood species, providing a more uniform surface for top coating
- Flexible, micro porous topcoats for an attractive, durable yet flexible surface

A strong chemical bond between layers provides interlocking protection top to bottom.

WOOD PRESERVATIVE

PRIMER

INTERMEDIATE

TOPCOAT

Depending on timber species, construction details, and the coating application facility, we have the coating system required.

For hardwoods, heartwood, softwood, engineered, modified or composite substrates, we can offer spray applied systems, flowcoat or dipping primers and intermediates, and systems suitable for vacuum and brush machines and coaters. We also supply products to seal exposed end-grain and V-joints crucially important in preventing moisture ingress and extending service life.

Increased durability

Teknos Aqua or GORI Industry coating systems use products which are mutually reinforcing: The individual layers utilize compatible binder technology, resulting in strong chemical bonds whether you choose one of our standard systems or a customized solution.

There are also active fungicides in every layer. Fungicide in the topcoat deters mould from forming on the surface, but should the surface be scratched or damaged, the fungicide in the underlying layers helps control the problem.



Application tip: Weak spots like V-joints and end grains should always be flow-coated or dipped.

Convenience



Flexibility, choice and efficiency



Choosing the optimum coating system for your application; whether wooden windows and doors, wood/aluminium composites, conservatories, balconies, cladding or garden furniture ... Teknos has the solution.

Wood/aluminium windows and doors

Teknos coatings are also ideal for wood/aluminium products. On timber faces, our formulations take into account the requirement of wood/aluminium window manufacturers for coating hardness combined with protection against blue stain and surface mould, whilst high quality binders keep yellowing and discolouration to a minimum – a key consideration for white or translucent finishes for wood/aluminium products.

Cladding

A wide selection of single pack systems for application by spray, brush machine, or vacuum coater; for a semi or fully finished end product.

Garden Furniture and Balconies

Teknos coating solutions for garden furniture and balconies can be applied on a variety of timber substrates, and feature flexible films, to ac-



Wooden windows and doors

Whatever the combination of timber species, colour or application method, a Teknos system is available to create a durable and attractive surface.



commodate natural movement in the timber, and good weathering resistance on horizontal surfaces.

Teknos coating systems meet the requirements of EN 927 governing the durability of exterior wood coatings.

Conservatories

A Timber conservatory or orangery adds value and character to any home and our almost limitless selection of opaque and translucent topcoat colours not only give protection, but allow a new conservatory to blend into the existing building and its surroundings.

Extensive experience

Teknos extensive experience in industrial coating industries also allows us to offer a complete package of powder and wet paint solutions for metal and aluminium facings as well as for PVC and composite materials.



Convenience



Ease of use

Teknos coatings are made to last, but they're also made for convenience. Convenience begins with a wide selection of primers specially formulated for the different requirements of the range of timber species and composite products used by manufacturers of outdoor products; such as pine, oak, mahogany, meranti, sapele, iroko, engineered products, chemically modified timbers, HDF and MDF. Whatever the species or construction, there's a Teknos Aqua or GORI Industry primer that brings out the best in it.

Freedom of choice characterizes the rest of the Teknos product lines as well. A vast range of colours, translucent and opaque topcoats, all make it easier to respond to new trends and to produce exactly what customers want.

Trouble-free production

Teknos Aqua and GORI Industry products also cater for production convenience. They have excellent run off and flow, dry quickly, and resist blocking; while our combi primers and high build systems minimise process steps – essential for attaining the high throughput and production speeds needed in today's competitive environment.



Opaque and translucent coatings can be tinted to your specifications prior to delivery.



Convenience



Fast and reliable delivery

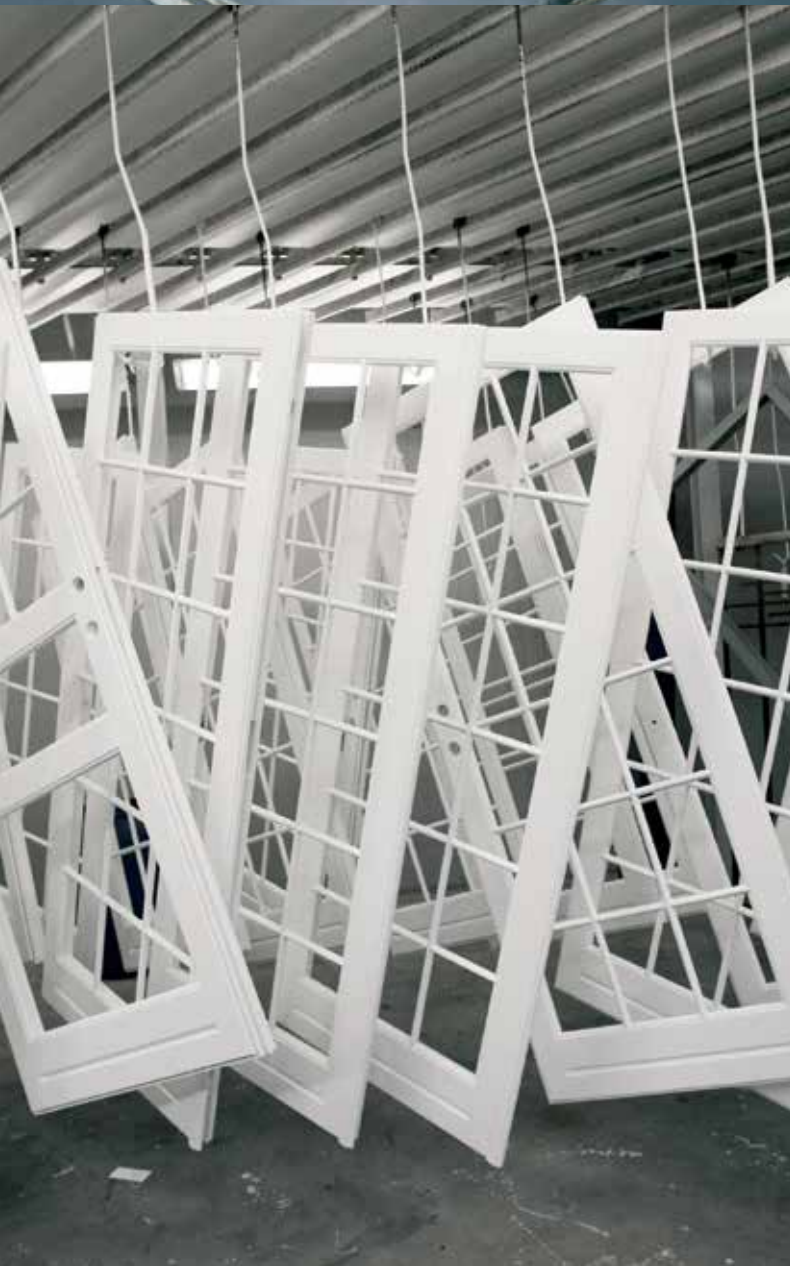
Convenience extends to Teknos' stocking and logistics policies, which are designed for maximum customer satisfaction, minimising delivery lead times and offering reliable delivery throughout Europe.

Convenience, of course, doesn't mean taking shortcuts. Our coating recommendations are always based upon a serious analysis of customer needs and responding quickly when those need changes.



Teknos coatings resist blocking for easy handling and fast production







Don't lose your way

REACH, VOC, BPD... Complying with today's complex regulations is time consuming and complicated.

Why not let Teknos be your guide? Our research labs boast some of the world's most knowledgeable experts in exterior wood coatings. They can help you comply with today's rules and prepare for future legislation.

We also field one of Europe's most respected technical support and service organisations. Our personnel are experienced in wood and wood preservation, drying and application techniques and processes, and other parameters that can affect your product's quality. They're ready to assist you whether you're selecting a new coating or fine-tuning an existing process.

Technical competence centre

Our Technical Competence Centre is one of the most advanced in Europe, where you can simulate heat, humidity and other conditions...experiment with application techniques as varied as brush, flow, flatbed and spray coating...or train your company's own production personnel.



And to complete the facilities, we have a full range of equipment for internal joinery finishing – including preparation, wet paint, powder and UV application and conventional and innovative drying facilities.

All part of Teknos' commitment to provide precisely the right solution for the needs of each and every customer.

Get expert advice from Teknos on:

- Wood preservatives and timber selection
- European product and environmental regulations
- Application techniques including: Vacuum impregnation, Dipping, Flow coating, Brush and vacuumat systems, Hand spraying, Automatic spraying, Component coating facilities
- Drying and flash-off times
- Temperature and humidity control
- Avoidance of runs, blisters, craters, blocking and other production problems
- Evaporation control in flow-coating systems
- Drying tunnel design



With R&D, production and technical staff all under one roof, response time is fast.



Teknos' Technical Competence Centre – one of Europe's leading sites for development, testing and training



A proud history ...and continuously growing

Founded over a half a century ago, the Teknos Group stands as a mark of excellence in outdoor coatings. The addition of the GORI Industry brand, backed by Teknos, one of Europe's leading manufacturers of exterior wood coatings, has added to our expertise and marks another step in our ambition to grow and develop our business.

Teknos has the resources to remain at the forefront of coating technology, and is firmly committed to environmental sustainability and ethical business conduct.

At Teknos, we strive to be our Customers' preferred coating supplier by focussing on:

- Excellent local sales and service
- Reliable products and deliveries
- Innovative, added value, technology
- Supporting our Customers' efforts to build their markets



You'll find the Teknos brands wherever quality, durability, convenience and service count – on wooden windows and doors, wood/aluminium windows, conservatories, cladding, garden furniture, balconies, and play-ground equipment.

Teknos' coating products are produced in ISO certified factories in Denmark and Finland and marketed by Teknos sales companies and selected distributors throughout Europe.

Please contact your nearest Teknos representative for further information, or visit our website.

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The Teknos Group

Teknos is one of Europe's leading suppliers of industrial coatings with a strong position in retail and architectural coatings, too.

Teknos has its own production in seven countries: Finland, Sweden, Denmark, Germany, Poland, Russia and China. In addition, Teknos has sales companies in 15 countries and exports to over 20 countries via a well-established network of dealers.

Teknos employs around 1 100 staff. Teknos was established in 1948 and is one of Finland's largest family-owned businesses.



● Group companies

● Network of dealers

www.teknos.com