

INDUSTRIAL WOOD

WE MAKE THE WORLD LAST LONGER



COATING SOLUTIONS FROM TEKNOS



Easy application and fast drying facilitate production.



Teknos exterior wood coatings provide outstanding protection.

PROTECTING EXTERIOR JOINERY AGAINST THE ELEMENTS

If there is anyone in Europe who understands wood and how to protect it from the elements, that company is Teknos. We are on our mission to make the world last longer by providing smart, technically advanced paint and coating solutions to protect and prolong.

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. They are easy to maintain, and complement the function and style of exterior wood products.

Teknos coatings are formulated to keep your products looking their best 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 are available in a wide range of translucent and an almost limitless selection of opaque colours, all of which are 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.

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

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

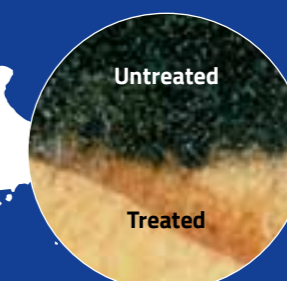


OAK – Heartwood



PINE – Sapwood

Comparison clearly shows the difference between untreated wood and wood treated against wood discoloration and wood destroying fungi.



Untreated

Treated

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.

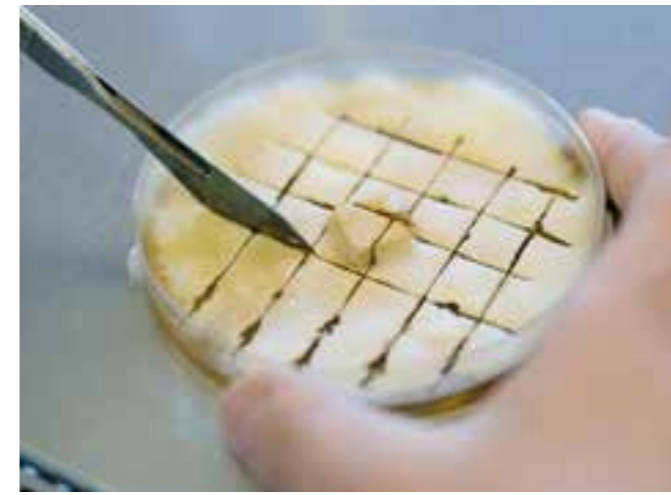
Teknos is highly committed to environmental responsibility and has made EU environmental regulations one of the cornerstones of its development process. All Teknos exterior wood coatings comply with the known requirements of REACH as well as the VOC. All wood preservatives are approved according to the Biocidal Products Regulation (BPR). 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 our range of wood preservatives, the wood is thoroughly protected and each layer in the system, from wood preservative to topcoat, build a highly long term durable moisture barrier. Teknos products are EN approved as required and our wood preservatives and combi primers are typically approved to EN 152 against wood discolouring fungi and EN 113 against wood destroying fungi.

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.



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



Without knot sealer With knot sealer



EXCELLENT STAIN LOCKING

Specially developed products ensure excellent results 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.

LOW LIQUID-WATER PERMABILITY

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

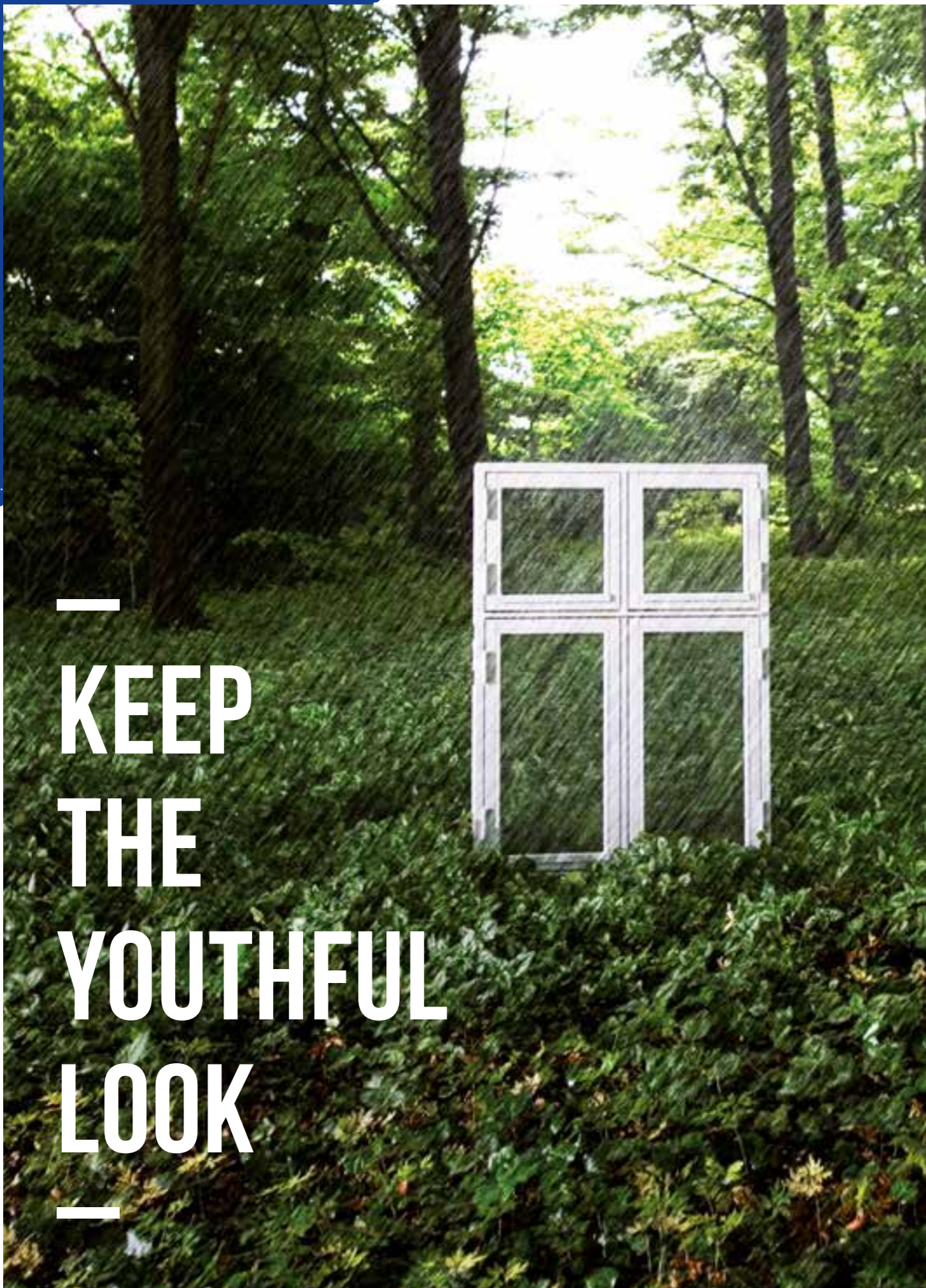
Teknos coatings also allow wood to breathe; essential for keeping windows and doors in top condition. Teknos micro porous coating systems allow moisture vapour to pass through, allowing the timber moisture content to maintain equilibrium through the seasons. It reduces the risk of moisture accumulating in the wood, which prevents formation of wood discolouring and/or wood destroying fungi.

COMBINED HARDNESS AND ELASTICITY

Teknos coatings dry to a hard but elastic finish. They penetrate deeply into pores to form a protective, flexible shield, to protect from cracking and to maintain surface integrity under the natural movement of the wood.

HIGHLY TRANSLUCENT

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



—
**KEEP
 THE
 YOUTHFUL
 LOOK**
 —



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

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



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 Light-fast pigments and UV protection guard against sunrays.



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

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

Each layer in the Teknos coating 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:

- Wood preservatives and combi-primers to preserve and prime the wood
- Primers to fill the wood's pores and provide an anchor for intermediates 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

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 and adhere exposed end-grain and V-joints which is crucially important in preventing moisture ingress and extending service life.

INCREASED DURABILITY

The individual products in a Teknos coating system 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.

The highly resilient coating film formed by Teknos' coating systems is one of the cornerstones underlining that we protect and prolong the lifetime of wood used in exterior conditions.

FLEXIBILITY, CHOICE AND EFFICIENCY



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.



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

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 wood discolouring fungi and surface mould. At the same time our high quality binders keep yellowing and discolouring 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. And a range of intumescent fire retardant coating products completes Teknos' offer to cladding and panel manufacturers.



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



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.





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



— Teknos coatings resist blocking for easy handling and fast production.

EASE OF USE

Teknos coatings are made to last, but they are 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 is a Teknos 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 products also cater for production convenience. They have excellent run off and flow, dry quickly, and resist blocking. 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.

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, does not mean taking shortcuts. Our coating recommendations are always based upon a thorough analysis of customer needs and designed to be readily flexible if those needs change.



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.



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

Teknos can offer professional guidance on these topics. 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 are ready to assist you whether you are selecting a new coating or fine-tuning an existing process.

TECHNICAL COMPETENCE CENTRE

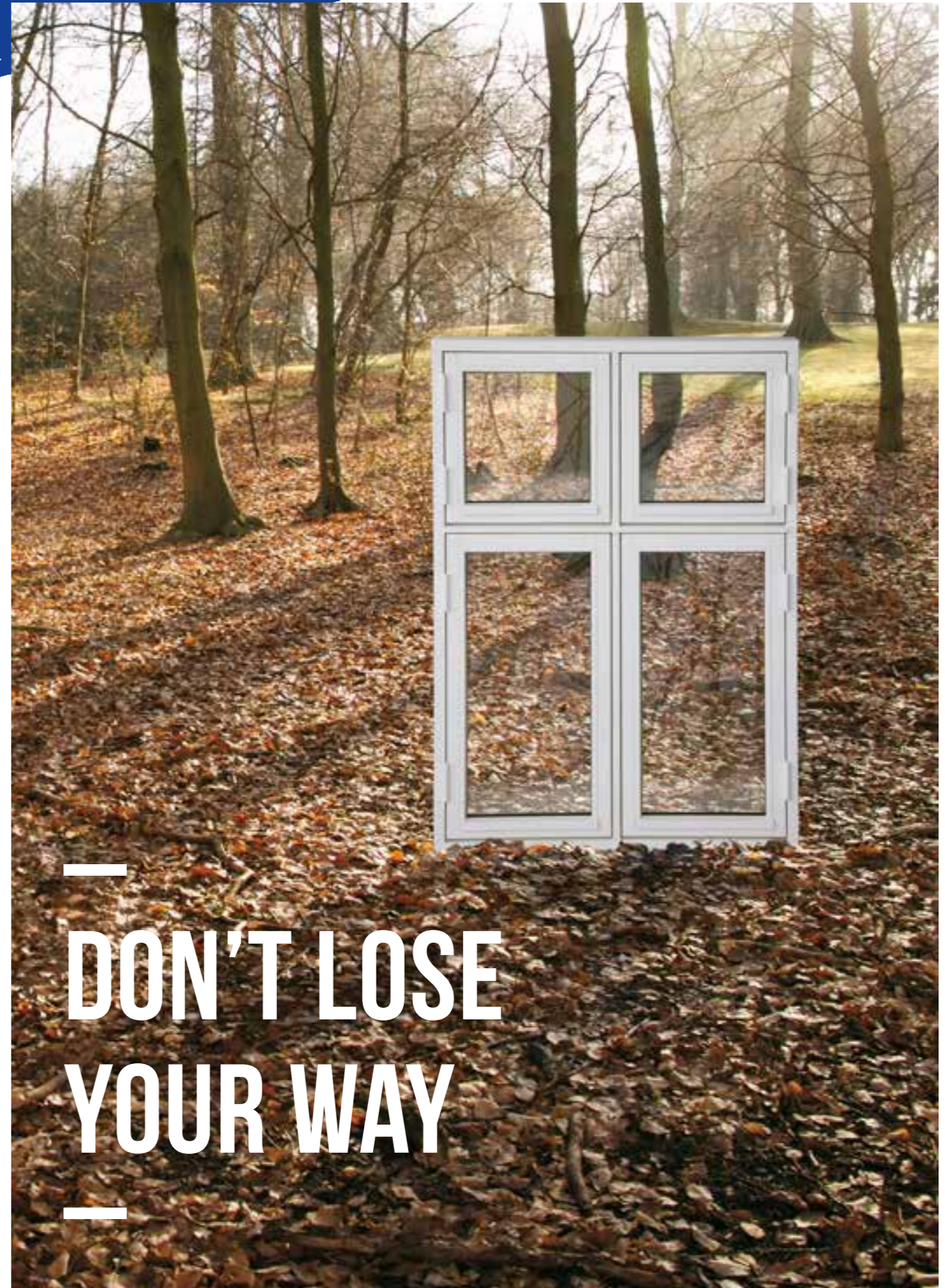
Our Technical Competence Centre is one of the most advanced in Europe, where you can simulate heat, humidity and other conditions, experiment with application techniques as varied as brush, flow, flatbed and spray coating or train your company's own production personnel.

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

All this is a part of Teknos' commitment to providing 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



DON'T LOSE
YOUR WAY



A SOLID HISTORY ...AND CONTINUED GROWTH

Founded over a half a century ago, the Teknos Group stands as a mark of excellence in exterior coatings.

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 will 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 playground equipment.

Teknos' coating products are produced in factories in Denmark, Finland, Sweden, Poland, Germany, Liechtenstein, the Netherlands, Russia, the USA, China, Malaysia and marketed by Teknos sales companies and selected distributors.

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

WE MAKE THE WORLD LAST LONGER

Just like nature protects and preserves all its precious resources, our aim is to offer smart, sustainable coating solutions to protect and prolong the lifespan of all the things that you care for.

Ever since we started in 1948 in a small hen house, our relentless strive has been to offer the best solutions and services in close partnership with our customers.

With our unique history, experience, family company roots and culture, we have engaged with enthusiastic professionals, partners and customers and together we can make the world last longer.

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