

Teknos, and its joinery manufacturing partners, are committed to meeting and exceeding best environmental practice. Teknos coating products, in keeping with its Scandinavian heritage, are exclusively water based, with volatile organic levels significantly below current and proposed legislative levels and free of all heavy metal.

**Teknos committed investment in research and development...**



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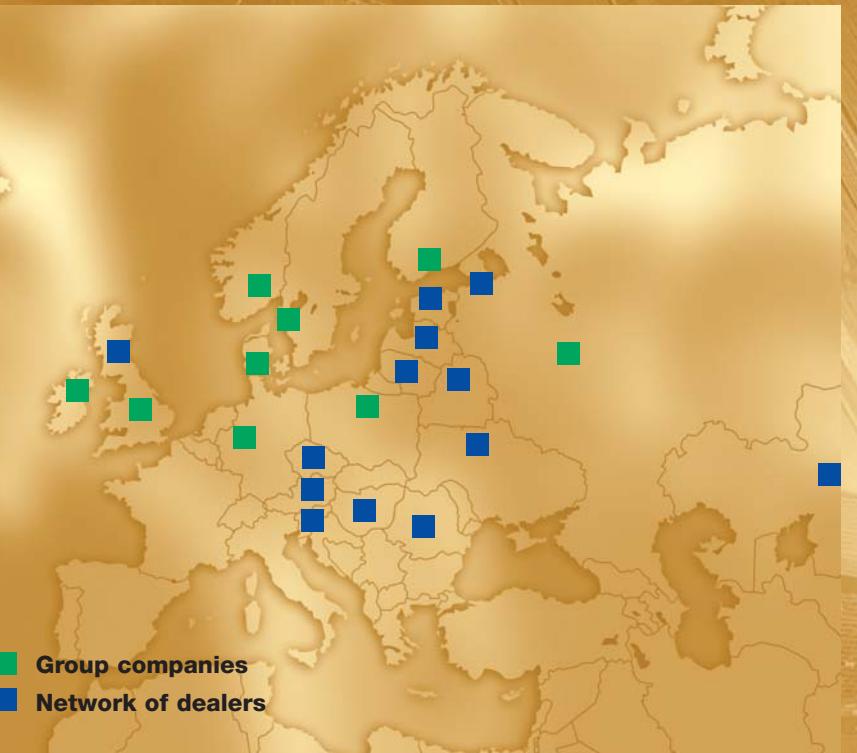
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**Teknos Group**  
Teknos is one of Scandinavia's leading manufacturers of joinery coatings operating throughout the Nordic region; in Germany, Russia, the United Kingdom, Ireland and Poland; and supplying Customers in over 20 European countries through a network of agents and distributors.

The Group's pre-eminence in exterior joinery systems is founded on sustained high levels of R&D expenditure, a strong concern for the environment, and its commitment to Customer Partnerships based on innovative products, reliable supply and value added coating solutions.



**Paint with Pride**

**Total Factory Applied Protection**

**TEKNOL® AQUA**

**AQUA PRIMER®**

**AQUATOP®**

**TEKNOSEAL®**

## Accredited manufacturing process...

### Factory Finished Joinery

The Teknos Timber Protection system allows exterior joinery manufacturers to produce fully engineered and protected products in a single integrated finishing process.

By combining topically applied preservation technology, novel end-grain and joint sealing with protective basecoats and flexible micro porous finishes, the Teknos system allows manufacturers to meet the latest European performance standards whilst reducing process times and working capital.

Independently accredited and environmentally sensitive, the Teknos system marks another significant step in improved joinery quality and performance from one of Europe's leaders in industrial wood coatings.

*Preservative, primers and intermediate coats can be applied using flow coaters.*



High build top coat application by automatic spray.



### Total process solution

Developed for both bespoke and volume manufacturers, Teknos' Timber Protection System can be applied with outstanding results by dip application and hand finishing, or on the latest automatic plant employing continuous flow coat, robotic spray and accelerated drying systems.

Rapid application times combine with fast drying and over coating to minimise work in progress, shortening lead times, eliminating production bottlenecks and improving Customer service.

The fully water based system significantly reduces the harmful emissions and disposal issues associated with many conventional solvent based preservatives whilst minimising tannin migration and eliminating extended drying and storage times.

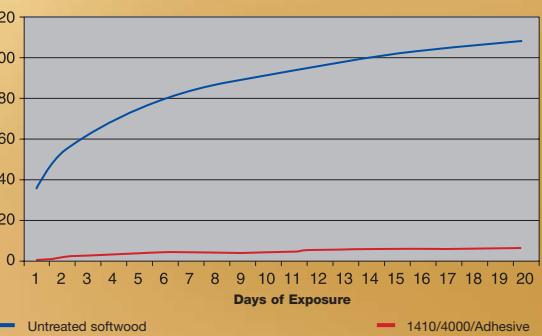
### Independent accreditation

The Teknos Timber Protection System fully complies with the requirements of BS EN 599, the latest Euro Standard for factory finished, preservative treated timber and the leaching and ageing resistance requirements of EN 84 and EN 73.

The full system is independently certified by RAL Gutegemenschaft 821/817 and IFT Rosenheim (535 25424) and by the Danish Technological Institute (358-02/2004).

Independent testing by the UK's Building Research Establishment (BRE 225-386) has shown the system to outperform traditional approaches by inhibiting rot, mould and moisture ingress, leading to its acceptance by the UK's National House Building Council (NHBC).

*Comparison of moisture uptake in untreated and treated softwood: Source BRE  
Moisture Uptake*



*Comparison of surface treated and vacuum impregnated softwood: Source BRE  
Moisture Uptake Comparison*



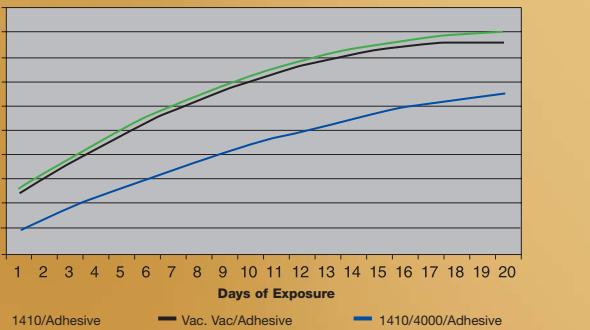
### Lifetime care

It has long been recognised that Teknos' exterior joinery systems applied to well designed factory finished joinery set an industry leading standard for durability and performance.

In partnership with ICI's Dulux Trade Group, Teknos have developed Timber-plan® a complete lifetime care package to provide Specifiers and estate managers with a cost effective maintenance program to ensure that their joinery retains its function and performance throughout the design life of the building.

The Timberplan® partnership, combined with a program of continuous improvement and development, provides maintenance continuity and the reassurance that economic long term care with simple one coat systems will keep the timber looking good for its lifetime.

*Comparison of pine sample treated with TEKNOL® AQUA 1410 and an untreated control after accelerated condensation testing.*



*Comparison of pine sample treated with TEKNOL® AQUA 1410 and an untreated control after accelerated condensation testing.*



## Proven coating systems...

### TEKNOL® AQUA 1410

Unique water based preservative for flow and dip coating application. Active biocides combined in an organic resin, inhibit mould and fungal growth and resist migration on ageing.

Application times to achieve the specified 77 g/m<sup>2</sup> loading are typically in the range of 10-15 seconds, with over coating in normal factory drying conditions in 1-2 hours.

Teknos TEKNOL® AQUA 1410 contains active biocides and is registered with the UK HSE under reference 7940 and with the Irish DoA under reference PCS 95227.

### AQUAPRIMER® Base Stain and Opaque Primer

Dip, flow or spray applied, the exclusive water based polymers have outstanding filling and penetrating qualities, enhance adhesion and minimise grain raising.

### ANTISTAIN AQUA® Primers

Water based isolating paints which can be used as priming or intermediate coats to prevent tannin staining on hardwood species or extractive staining on knots.

### AQUATOP® 2600

AQUATOP® translucent and opaque topcoats provide extended protection against weathering, UV degradation, mould and fungal attack. Proprietary technology minimises microfoaming in the final paint film, extending coating durability and giving added clarity to translucent finishes.

AQUATOP®'s unique blend of water based acrylic polymers allow high film builds to be applied in the factory which dry quickly and rapidly resist blocking.

### TEKNOSEAL® 4000 End Grain Sealer

A water based barrier coat which penetrates and seals porous end grain, reducing moisture uptake by up to 90%.

The importance of this is shown in the two samples illustrated, where after 24 months of exterior exposure, the sealed timber shows no sign of breakdown.

### TEKNOSEAL® 4001 Break Joint Filler

A clear, flexible, over-coatable compound which bridges the natural movement in construction joints preventing moisture penetration.

