

***Total Factory Applied  
Protection***



## Factory Finishing ... a total process solution



### Factory Finished Joinery

Teknos Total Factory Applied Protection Systems allow joinery manufacturers to produce fully engineered exterior joinery, with almost unlimited colour choice, in a single integrated finishing process.

By combining topically applied preservation technology, innovative 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.



### 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 application to minimise work in progress, shorten lead times, eliminate production bottlenecks; thus 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.



## Accreditation and lifetime assurance



### Independent accreditation

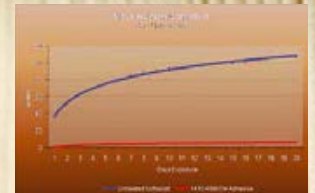
Teknos' Total Factory Applied Protection Systems comply with the requirements of BS EN 927, BS EN 644 and BS EN 599, the European Standard for factory finished preservative treated timber, and with the leaching and ageing resistance requirements determined by EN 84 and EN 73.

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

Independent testing by the UK 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 National House Building Council (NHBC).



*Independent tests confirm the importance of robust end grain protection to minimise moisture ingress, prevent rot and extend service life. Source: UK Building Research Establishment*



### Durability & Service Life

Teknos exterior joinery systems, applied to well designed factory finished joinery, set industry leading standards for durability and performance.

Through its membership of the Wood Window Alliance of joinery manufacturers, installers and leading component suppliers, Teknos is at the forefront of raising and codifying UK industry standards for exterior joinery. Independent research by Imperial College and the Davis Langdon Group confirms factory finished joinery, protected by Teknos systems, and manufactured and maintained to WWA standards, will perform for the design life of a typical building, give lower lifetime costs, and reduce greenhouse gas emissions compared with competing technologies.

Teknos provides detailed maintenance programs for its factory applied systems and through partnerships with decorators and its Timberplan® scheme offers maintenance continuity with simple one coat systems to keep joinery performing and looking good throughout its service life.

*Teknoseal 4000 applied by brush to exposed end grain prior to factory finishing*



*Applying construction joint sealer to vulnerable v joints by cartridge gun*



## Proven coating systems



Wood preservative contains actives that penetrate the wood



Fluid evaporates, leaving active ingredients which protect against fungus and decay



Pine treated with TEKNOL® AQUA 1410 (on the right) and untreated control after accelerated condensation test



Traditional primers sit on the surface of the timber with limited penetration



Aqua Primer's® nano particle technology increases penetration depth, ensuring outstanding protection



Water is repelled but micro porosity allows moisture to escape

### TEKNOL® AQUA 1410

Unique water based preservative for flow and dip coating application. Active biocides 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.

### AQUA PRIMER® 2907

Dip or flow applied primer, combining the preservative properties of TEKNOL AQUA 1410 and the base stain protection of AQUA PRIMER 2900 in single product.

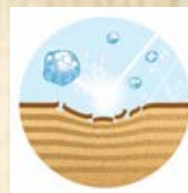
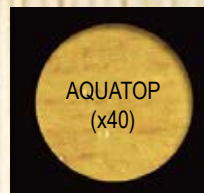
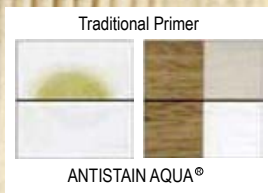
*Teknos TEKNOL® AQUA 1410 and AQUA PRIMER® 2907 contain active biocides and are registered with the UK HSE under reference 7940 and 9168 and with the Irish DoA under reference PCS 95227 and PCS 96217. Both products are undergoing full BPD approval.*

### AQUA PRIMER® 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 minimise extractive staining on softwood knots.



ANTISTAIN AQUA isolating products minimise tannin discolouration from tropical hardwoods and knotty softwood

Teknoseal 4000 blocks water transfer through vulnerable end grain, preventing staining and rot

AQUATOP significantly reduces microfoaming - the formation of air bubbles which reduce clarity and provide a path for moisture ingress

Tough, flexible surface resists cracking"

### AQUATOP® 2600

AQUATOP® translucent and opaque topcoats provide extended protection against weathering, UV degradation, mould and fungal attack. Proprietary technology minimises micro foaming 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.

AQUATOP® is also available for brush application, providing maintenance continuity.

### TEKNOSEAL® 4000 End Grain Sealer

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

### TEKNOSEAL® 4001 Construction Joint Filler

A clear, flexible, overcoatable compound which bridges the natural movement in construction joints and seals exposed end grain, preventing moisture penetration.

### TEKNOFILL® 5001 Fine Surface Filler

Solvent free acrylic filler, which dries to a smooth, fine surface and is easily sanded and quickly overcoatable. Used in combination with Anti Stain Aqua 5200, provides enhanced resistance to knot staining.



## Teknos committed to quality ...

Teknos and its joinery manufacturing partners share a commitment to quality and to meeting and exceeding best practice.

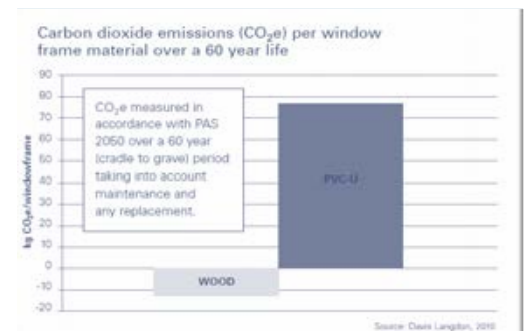
All Teknos factories have quality and environmental management systems, certified in accordance with ISO 9001 and ISO 14001, and our Industrial Wood plant in Vamdrup also holds an EMAS certificate.

Teknos joinery coatings, in keeping with their Scandinavian heritage, are water based, with VOC levels significantly below current and proposed legislative levels, and free of all heavy metal additives.



*All Teknos factories have independently certified quality and environmental management systems*

## ... protecting our environment



*Timber windows, protected by Teknos water based coatings, are not only energy efficient; they reduce CO<sup>2</sup> emissions by up to 89 kg over a typical 60 year service life. Source: Davis Langdon LLP*

*Teknos Total Factory Applied Protection System, year long protection, year after year*



## Teknos Group Companies

Teknos is one of Europe's leading suppliers of joinery coatings and a major producer of industrial, powder and architectural paints.

Teknos companies operate throughout the Nordic region; in Germany; UK; Ireland; Scotland; Poland; Slovenia; Russia, Ukraine, China, Vietnam and through a network of agents and distributors in around 20 other European countries.

The Group's pre-eminence in exterior joinery protection is founded on sustained 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.

Teknos is one of Scandinavia's largest family-owned businesses.

### Teknos Oy

Helsinki factory, Head office  
Takkatie 3, P.O.Box 107  
FI-00371 HELSINKI  
Finland  
Tel. +358 9 506 091  
sales@tekno.fi

### Teknos Oy

Rajamäki factory  
Perämatkuntie 12,  
P.O.Box 14  
FI-05201 RAJAMÄKI  
Finland  
Tel. +358 9 506 091  
sales@tekno.fi

### Teknos A/S

Industrivej 19  
DK-6580 VAMDRUP  
Denmark  
Tel. +45 76 93 94 00  
tekno@tekno.dk

### Teknos AB

Limmaredsv. 2, P.O.Box 211  
SE-514 24 TRANEMO  
Sweden  
Tel. +46 325 619 500  
info@tekno.se

### Teknos Deutschland GmbH

Edelzeller Strasse 62  
D-36043 FULDA  
Germany  
Tel. +49 661 1080  
info@tekno.de

### Teknos Norge AS

Industriveien 28  
NO-3430 SPIKKESTAD  
Norway  
Tel. +47 31 29 49 00  
tekno@tekno.no

### Teknos Sp. z o.o.

ul. Ziemowita 59  
PL-03-885 WARSAW  
Poland  
Tel. +48 22 678 70 04  
biuro@tekno.pl

### Teknos Oliva Sp. z o.o.

ul. Chwaszczynska 129-149  
PL-81-571 GDYNIA  
Poland  
Tel. +48 58 629 91 62  
oliva@oliva.com.pl

### Teknos d.o.o.

Kidriceva cesta 94  
SI-4220 Škofja Loka  
Slovenia  
Tel. +386 4 236 58 78  
Fax +386 4 236 58 79  
info@tekno.si

### Teknos LLC

50 Artema Str.  
Office 5B  
04053 KIEV  
Ukraine  
Tel. +38 044 359 0333  
tekno.ukraine@tekno.com

### Teknos OOO

Butyrskij Val, 68/70, bl.4, of.211  
127055 MOSCOW  
Russia  
Tel./Fax +7(495) 967 19 61  
tekno.russia@tekno.com

### Teknos Ohtek OOO

Ul. Boksitogorskaya, 9 lit. Z  
195248 ST PETERSBURG  
Russia  
Tel. +7(812) 320 76 28  
Fax +7(921) 573 12 87  
sales@teknoohtek.ru

### Teknos Deko OOO

**Joint Venture Company**  
Lomonosovosky District  
Kipen village  
Ropshinskoye shosse 2 build 4  
188515 LENINGRAD REGION  
Russia  
Tel. +7(921) 934 48806  
k.shangin@tekno.deko.ru

### Teknos Oy

**Representative Office**  
Kiseljova Street 55, rom 12  
220002 MINSK  
Republic of Belarus  
Tel./Fax +375 17 237 4336  
vladimir.shienok@tekno.com

### Teknos Coatings Trading

**(Shanghai) Co., Ltd**  
Rm 405a-407a Silver Centre  
No. 1388 North Shan Xi Road  
Putuo District  
SHANGHAI 200060  
Peoples's Republic of China  
Tel. +86 21 6149 8582  
tekno.china@tekno.com

### Teknos A/S

**Representative Office**  
MR2, Level 4 Centec Tower  
72-74 Nguyen Thi Minh Khai Street  
District 3, HO CHI MINH CITY  
Vietnam  
Tel. +84 8 3822 0425  
tekno@tekno.vn

### Teknos Group Oy

Teknos Group's parent company  
Takkatie 3, P.O.Box 107  
FI-00371 HELSINKI  
Finland  
Tel. +358 9 506 091  
sales@tekno.fi  
www.tekno.com

## Teknos UK and Ireland

Teknos provide technical support and delivery services from 3 service centres, located at Swerford, near Banbury, Livingston and Belfast.

For further information, please contact your local service centre.

Teknos (UK) Limited  
Unit E1, Heath Farm  
Banbury Road  
Swerford  
Oxfordshire OX7 4BN

Tel. +44 (0) 1608 683494  
Fax: +44 (0) 1608 683487

Email: sales@tekno.co.uk  
Web: www.tekno.co.uk

Teknos Scotland Limited  
Nettlehill Road  
Houston Industrial Estate  
Livingston  
EH54 5DL

Tel. +44 (0) 1506 436222  
Fax: +44 (0) 1506 448826

Email: sales.scotland@tekno.co.uk  
Web: www.tekno.co.uk

Teknos Ireland Limited  
Unit 1  
Fortwilliam Industrial Estate  
Dargan Crescent  
Belfast BT3 9JP

Tel. +44 (0) 2890 960670  
Fax: +44 (0) 2890 960674

Email: sales.ni@tekno.co.uk  
Web: www.tekno.co.uk