

# COATINGS FOR ACCOYA<sup>®</sup> AND TRICOYA<sup>®</sup>

A guide to Teknos coatings solutions  
for Accoya<sup>®</sup> and Tricoya<sup>®</sup>



Performing arts school clad in Accoya<sup>®</sup> and coated in Teknos, UK



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# THE PERFECT PARTNERSHIP



## TEKNOS, THE PERFECT COATINGS PARTNER FOR ACCOYA® AND TRICOYA®

Accoya® is ideal for windows, doors, cladding, decking and structural wood construction. Coating with Teknos paints not only gives a beautiful finish but also prolongs the service life of the timber and the coatings. Improved service life means reduced maintenance costs.





Teknos coatings for Accoya® and Tricoya®  
The Teknos range of factory applied joinery coatings protect wood and prolong its life. It is designed to coat and decorate a wide variety of exterior and interior joinery, cladding and facades.

It is suitable for factory application by dipping or flowcoat, automatic and manual spraying and for brush applied maintenance.

You can choose almost any opaque or translucent colour.

Teknos coated Accoya® and Tricoya® carry a 12 year warranty on fully factory finished opaques, and a 10 year warranty on fully factory finished transluents.

## TEKNOS PAINTS HELP TIMBER WITHSTAND THE HARSHTEST CLIMATES

-  Enhanced UV protection
-  Extreme weathering performance
-  Barrier against moisture
-  Suitable for all climates



### Wood without compromise

Accoya® is produced using Accsys' proprietary acetylation process which effectively converts sustainably grown softwoods and non-durable hardwoods into what is best described as 'high technology wood'.

Accoya® is guaranteed for 50 years in exterior use and 25 years when used in the ground.

### A new breed of MDF

Tricoya® is a high performance MDF panel product suitable for door sidings, facade paneling, trim, facias, soffits and more. It demonstrates outstanding durability and dimensional stability in the most extreme and challenging environments - both exterior as well as interior, wet and high moisture applications. It can be cut to size, machined CNC cut, painted, routed, and wrapped without impacting its unique properties.

Tricoya® is guaranteed for 50 years above ground and 25 years in the ground.



## KEY FEATURES



**DIMENSIONALLY STABLE**



**OUTSTANDING DURABILITY**



**PERFECT FOR COATING**

Accoya® wood is produced from sustainably sourced, fast growing wood and manufactured using Accsys' proprietary patented modification process from surface to core.



**BAREFOOT FRIENDLY**



**NATURALLY INSULATING**



**EXCELLENT MACHINABILITY**



**INSECT BARRIER**



**CONSISTENT QUALITY THROUGHOUT**



**NATURALLY BEAUTIFUL WOOD**



**FROM SUSTAINABLE SOURCES**



**RETAINED STRENGTH & HARDNESS**



**NON-TOXIC & RECYCLABLE**



**DURABLE**

Longer lasting, perfect for outdoor use or wet (interior) environments.



**50 YEAR WARRANTY**

Peace of mind with a 50 year Tricoya warranty above ground and 25 years in ground.



**DIMENSIONALLY STABLE**

Swelling and shrinking dramatically reduced



**DESIGN FREEDOM**

All the design, fixing and machining flexibility of medium density fiberboard



**LOWER MAINTENANCE COSTS**

Extended periods between exterior coatings maintenance



**IDEAL FOR COATING**

Improved stability and durability enhances the service life of the coating. Damaged coating will not affect the panel warranty



**FUNGAL RESISTANT**

Effective barrier to fungal decay



**SUSTAINABLY SOURCED**

Sustainably sourced PSC® certified



**NO ADDED FORMALDEHYDE**

Tricoya® complies with CARB 93120 for Phase 2 and NAF requirements



Accoya®

## Sustained coating test by BM TRADA

Results of the fixing joint test within the eight year cladding exposure trial, showing excellent performance and stability with Teknos coated Accoya® compared with other timber species.

Coating system

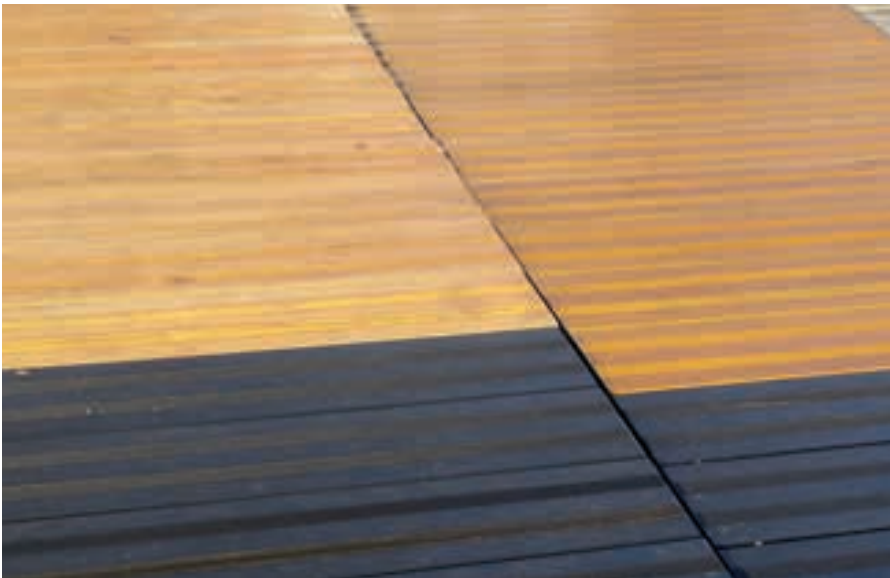
- AQUA PRIMER 2900 Teak (1 coat)
- AQUATOP 2600 Cypress Gloss (2 coats)



Siberian Larch



Western Red Cedar



## Testing WOODSTAIN VV on Accoya® decking.

2 layers of Teknos Drywood's WOODSTAIN VV provide a durable finish on Accoya® decking. Maintenance intervals depend on the use and climate conditions.

# We're confident that Teknos is the best partner for your Accoya® and Tricoya® projects. Here's why.

## TEKNOS COATED ACCOYA® HAS BEEN TESTED OVER MANY YEARS AND FOUND TO BE ONE OF THE MOST EFFECTIVE COATINGS PARTNERSHIPS FOR EXTERNAL JOINERY.

Teknos coatings have been used extensively on Accoya® for over 10 years. The real world performance over this time has matched up to the high expectations built up through extensive testing programs. Dual service levels, combined with the Accoya®, Tricoya® and Teknos are one of the most effective partnerships for external joinery and cladding.

### Accoya® independent tests.

#### BM TRADA

This test was set up to evaluate translucent coating performance on Accoya®, vertical grain Western Red Cedar and Siberian Larch. After 8 years of natural exposure, the Accoya® boards in this test exhibited "the best performance including excellent stability which has significantly reduced splitting and fissuring at board ends, prevented distortion and fissuring around fixings as well as extending the expected lifetime of the coating".

#### BM TRADA

"Demonstrable performance improvements of the surface coating could be achieved on all substrates tested by using cladding profiles which possessed better water-shedding details and rounded arises. Furthermore, by using a substrate with greater stability such as Accoya® the incidence of substrate and coating failures could be significantly reduced."

#### BM TRADA

42 month trial of ebony black, translucent stain with 45° southern exposure demonstrated that "Accoya® wood has superior coating performance compared to Siberian Larch and Nordic Pine". This result gives confidence in confirming suitability of black coatings on Accoya® and backs up the success of this approach in real world projects over the past 10 years.

#### Building Research Establishment

13-year windows L-joint test indicated that Accoya® "would be deemed to provide sufficient protection for long life window joinery".

#### SHR Timber Research

In a 9.5 year external coatings test on Accoya® wood "outperformed all other timbers with better coating performance and superior coating adhesion in both wet and dry conditions".



Testing Teknos on Accoya® cladding compared with other timber species.

# TEKNOS COATINGS FOR ACCOYA®

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## PRESERVATIVE\*

TEKNOL AQUA 1410  
Provides good adhesion.  
Equalises surface colour.

## COMBI PRESERVATIVE/PRIMER\*

AQUAPRIMER 2907-02  
A highly robust and easy to use combi-primer with biocidal properties that protect against wood discolouration and wood destroying fungi (EN 599-1).

\* Use biocides safely. Always read the label and product information before use.

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## ANTIBLEED PRIMER AND KNOT SEALING PRIMER

ANTISTAIN AQUA  
Prevents discolouration of the topcoat. Reduces the need for sanding.  
Reduces and delays discolouration of the topcoat. Reduces the need for sanding.

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## INTERMEDIATE

AQUAFILLER 6500  
Fills grains. Reduces the need for sanding.

## TOPCOAT

AQUATOP 2600  
A flexible, durable topcoat with exceptional coverage in opaque systems and excellent clarity in translucent systems. Non blocking formulation.

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## V-JOINT/ADHESIVE SEALER

OPTI-JOINT  
Glue that prevents water uptake at end-grains and capillaries.

## END GRAIN SEALER

TEKNOSEAL 4000  
Minimises moisture vulnerability of exposed end grain.

Visit [www.teknos.com](http://www.teknos.com) for guidance on products and application





Bellway Homes in Accoya® and Teknos, Essex, UK



## TEKNOS COATINGS FOR TRICOYA®

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### TOPCOAT

### END GRAIN SEALER



**AQUATOR 2600**  
A flexible, durable topcoat with exceptional coverage in opaque systems and excellent clarity in translucent systems. Non blocking formulation.

**TEKNOSEAL 4002**  
Inhibits water/humidity ingress on exterior MDF/HDF.

## TEKNOS FEYCO TREFFERT COATINGS FOR TRICOYA®

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### TOPCOAT

### TOPCOAT

### PRIMER



**ALPOCRYL KF**  
Highly resistant topcoat, suitable for spray application.

**FEYCRYL SG**  
Air-curing, glossy 2C enamel with a high weather resistance and gloss retention.

**ALPOLAN UNIVERSALGRUND 242**  
Strengthen wood-based materials. Can be brush or roller applied.

# TEKNOS DRYWOOD COATINGS FOR ACCOYA® AND TRICOYA®

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## PRIMER



**TRITION PRIMER**  
Provides excellent adhesion and filling.

## TOPCOAT

**TRITION FINISH BRILLIANT**  
Excellent surface hardness, long term durability, high colour and gloss stability.

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## PRIMER



**OPTIPRIMER FLOWCOAT**  
Good filling properties.

## TOPCOAT

**OPTIFINISH G, G40, G70 and OPTIFINISH TR** Matt, Semi-gloss and Gloss  
Low early water uptake, durable finish with excellent surface properties.

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## SEMI-FILM FORMING



**WOODSTAIN VV**  
Semi-film building coating system for cladding.

## NON-FILM FORMING

**BIOLEUM WOODOIL**  
Non-film forming biobased waterborne oil for exterior wood and cladding.

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## ADHESIVE SEALER



**OPTI-JOINT**  
Moisture tight glue for window frame joints and the exterior part of joints in windows and doors. Can also be used as a V-joint sealer.

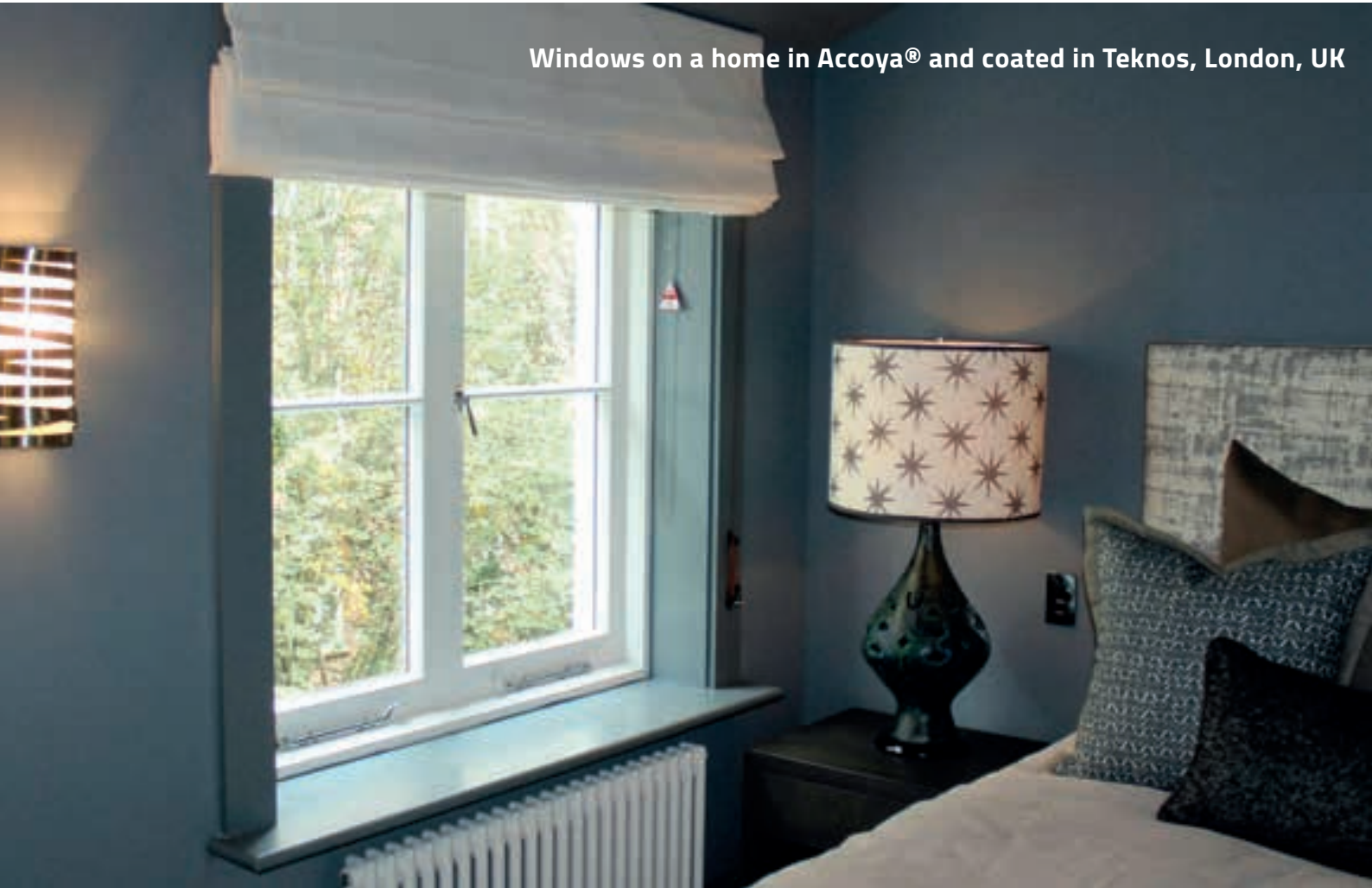
## END-GRAIN SEALER

**END-GRAIN SEALER**  
Excellent protection of end-grains from water uptake.

Visit [www.teknosdrywood.nl](http://www.teknosdrywood.nl) for guidance on products and application systems



Hospital windows in Accoya® and Teknos, Kent, UK



Windows on a home in Accoya® and coated in Teknos, London, UK

# Cladding at St. Kilda Beach restaurant, Melbourne

The contractors on this project chose Accoya® for this project as it is lighter than traditional Australian timbers.

As a result, there were savings in external fixings for the design of the large opening screen doors and dynamic louvre system which uses Accoya® fins.

The architects had designed a Shou Sugi Ban charred finish for the project, which was finished using a

base coat of Teknos primer. They also selected Accoya® for finger jointing all the other joinery and curtain walls on the project.

Despite the oceanfront location, the restaurant remains a stable and low maintenance structure.





# Historic lighthouse in the UK

The iconic 177 year old Belle Tout Lighthouse sits high on the cliffs above the sea on the South coast of England. It was purchased by a private owner in 2008 who then carried out extensive renovations to convert it into an exclusive and unique guesthouse.

With the exception of the metal windows around the top of the tower where the lamp was once housed, the remaining existing windows were of timber construction in a mixture of styles and timber species and were generally in a very poor condition, letting in both wind and rain. They were also inefficient in terms of energy conservation as they were mainly single glazed.

Following discussions with the Local Authority Planning & Conservation Department, the owner decided to replace all the windows. Bearing in mind the age and location of the building, the local Conservation Officer expressed a preference for the replacement windows to be timber. The owner was keen to commission a UK based manufacturer, ideally local to Sussex.

Accoya® wood windows with a Teknos coating was the ideal solution in this extreme environment.

# Restoration project in Manchester, UK

When planning the restoration of this heritage property in North West England, the joiners decided on Accoya®. Their choice was based on Accoya®'s dimensional stability, durability and machinability, compared with other timbers they had used.

All the replacement windows were not only manufactured in Accoya® but also fitted with

double glazing to shield hotel guests from aircraft noise at nearby Manchester Airport.

Bruntwood Hall's windows were coated in Teknos paint in 'Clean White', in keeping with its period character.





# Accoya factory with Accoya® and Tricoya® cladding, doors & windows



Located in Arnhem in the Netherlands, Accsys' production facility and offices have an Accoya® and Tricoya® facade. The design consists of Accoya® window frames filled with Tricoya® panels and a decorative design in Accoya® over the lower floor exterior.

Black coatings on wood products are highly sought after but often avoided due to performance issues through high heat build up and moisture instability. Accoya® and Tricoya® address these issues and provide the confidence for safe specification of black coatings.

As producer of Accoya® and licensor of Tricoya®, the company naturally chose their partner, Teknos for this project.

Both Accoya® and Tricoya® were primed and coated in Teknos Drywood to provide a superb finish with long-lasting protection.



# TEKNOS TIPS ON COATING ACCOYA®



Round Accoya® and Tricoya® cladding boards and joinery with 3mm radius corners on all exposed edges to achieve uniform coating thickness and maximum life.



Apply coatings in an ambient temperature of 10° to 30°C and humidity below 80% for optimal curing conditions.



Protect exposed or cut end grain with TEKNOSEAL 4000 to prevent moisture ingress into the timber during installation.



Stop moisture getting into window and door joints by creating a moisture tight joint with OPTI-JOINT.



A combi preservative/primer\* is recommended for both Accoya® and Tricoya®, to protect timber against mould growth.

\* Use biocides safely. Always read the label and product information before use.



Coat cladding boards on all sides for maximum performance.

Visit [www.teknos.com](http://www.teknos.com) for guidance on products and application systems



# OUR SUSTAINABILITY PROMISE

## PARTNERS IN SUSTAINABILITY

The Teknos and Accsys commitment to quality and sustainability is deeply embedded in our partnership.

We are committed to environmental responsibility and share a dedication to meet and exceed best practice.

### The Teknos promise

Teknos is on a mission to protect the planet and make the world last longer. We have systematically shifted from solvent-borne products to high solid and water-borne products and are continually researching new ways to underline our commitment to making the world last longer.

All Teknos coatings comply with the known requirements of The Biocidal Products Regulation (BPR), REACH and the VOC directive.

Teknos believes in future proofing operations so have eliminated the use of raw materials that are likely to be prohibited through further REACH legislation.

### The Accsys promise

Accoya® and Tricoya® offer compelling performance and environmental advantages in regards to:

- Sustainability
- Embodied carbon
- Enhanced durability
- Strength
- Dimensional stability
- FSC® certified

Accoya® wood is one of the few building products to have acquired Cradle to Cradle<sup>SM</sup> Certification at Gold Level, and a C2C Platinum Level recognition for the most important C2C sustainable category; Material Health. As a result, specification of Accoya® also yields additional credits for specifiers in LEED v4, BREEAM and Google's Health Materials Portal, Portico.

Tricoya® is EUTR compliant and is produced from fast-growing, well managed, sustainable sources. With the superior durability and stability afforded by Tricoya® wood elements (wood chips, particles, fibres), wood-based panels such as MDF manufactured using Tricoya® have a considerably longer lifespan than unmodified wood-based panel products which leads to lower maintenance frequency.



Accsys offices cladding in Accoya®, Arnhem, The Netherlands

# ABOUT TEKNOS AND ACCSYS

## ABOUT TEKNOS

Teknos is a global coatings company with operations in more than 20 countries in Europe, Asia, and the USA. It employs approximately 1,600 people and the net sales for 2016 was EUR 307 million. Teknos is one of the leading suppliers of industrial coatings with a strong position in retail and architectural coatings. Teknos wants to make the world last longer by providing smart, technically advanced paint and coating solutions to protect and prolong. Teknos always works in close cooperation with its customers. It was established in 1948, and is one of Finland's largest family-owned businesses.

## FURTHER INFORMATION

For more information or to request a brochure contact +358 9 506 091 or sales@teknos.fi

[www.teknos.com](http://www.teknos.com)



@teknos.fi



Teknos

## ABOUT ACCSYS

Accsys Group is a chemical technology group focused on the transformation of wood through acetylation.

The Group owns the proprietary rights for the production of two market leading products, Acccoya® wood and Tricoya® wood elements, both manufactured using Accsys' proprietary acetylation processes. The products are distributed into building industries worldwide.

## FURTHER INFORMATION

For more information or to order a full Acccoya® or Tricoya® brochure contact +44 (0)20 7421 4300

[www.acccoya.com](http://www.acccoya.com)



[www.tricoya.com](http://www.tricoya.com)

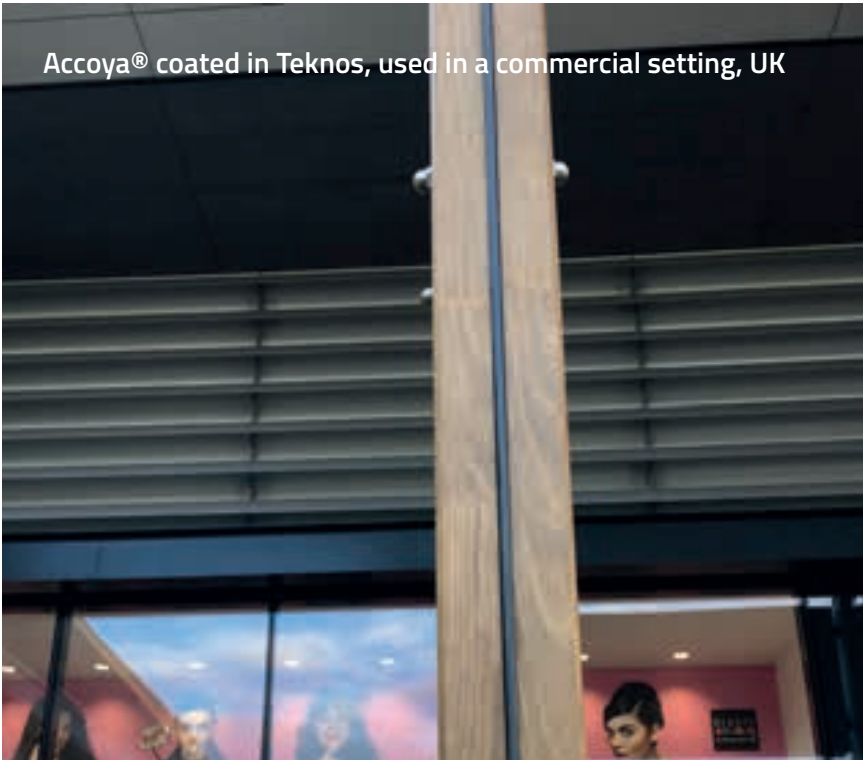


Teknos coated Acccoya® bespoke windows on a period London property, UK

Home extension clad in Accoya® and coated in Teknos, Scotland



Accoya® coated in Teknos, used in a commercial setting, UK



Oceanside railings with Accoya® posts, Australia



# 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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