

## Performance warranty 12 years on opaque finishes

Teknos now offer an extended coating warranty on exterior joinery and cladding manufactured from Medite® Tricoya® and fully factory finished with Teknos approved systems. Warranties of up to 12 YEARS on opaque finishes are available subject to exposure conditions.

The warranties, available on exterior joinery, roof line products, panels and cladding manufactured from Medite Tricoya, cover embrittlement, flaking or cracking of the coating system resulting from a coating manufacturing fault.

The extended coating performance described in these warranties is based on Teknos' test results and the reflects the combination of:

- Medite Tricoya's enhanced dimensional and UV stability
- Best practice building design
- Component design, manufacture and storage in accordance with TRADA, BWF, and BRE recommendations
- Joinery complying with the requirements of BS EN 942: 1996 and BS 644: 2009
- Teknos fully factory applied coating and mould inhibiting systems



### Proven Coating Specifications

#### Application Information:

Apply at temperatures between 10°C and 30°C, and at humidity levels below 80%. Lower temperatures and higher humidity levels may inhibit curing. Surface temperature must be at least 3°C above the dew point to prevent moisture condensation during the curing process.

Surfaces to be coated should be clean, dry and free from dust and grease.

To minimise the vulnerability of exposed end grain, Teknoseal 4000 end grain and Teknoseal 4001 V-joint sealers must be used where appropriate. Please contact the Teknos help desk for further information.

Aquatop 2600 is available in Brilliant White Gloss, semi Gloss and Satin and in over 5000 Satin opaque colours, which include BS4800, RAL, NCS and GBI colour ranges. Colour matches to alternative colour systems are also available.

#### Important Notes

Cut edges and machined profiles can normally be finished successfully in a two coat process but performance is dependent on the quality of machining. Fine cutters and sanding to achieve as closed a surface as possible will give best results.

	First Coat	Top Coat
<b>Product</b>	Teknoseal 4002	Aquatop 2600 opaque top coat
<b>Recommended application method</b>	Air assisted airless spray	Air assisted airless spray
<b>Application temperature (°C)</b>	Minimum 10° Centigrade	
<b>Wet film thickness (µ)</b>	150 - 175	175-200
<b>Dry film thickness (µ)</b>	60 - 70	70-80
<b>Over coat time (23°C; 65% Rh)</b>	4 hours	2 - 4 hours
<b>Action when dry</b>	Lightly de nib and dust off	
<b>Equipment Cleaner</b>	Water	Water



A major factor in prolonging service life and extending recoating intervals is the use of acetylated MDF (trade name Medite Tricoya). This modification provides a durable substrate with high dimensional stability, particularly in humid climatic conditions. An essential condition of this guarantee is that the moisture content of the board after acetylation must be in the range of 4% to 6% at the time of coating application.

To comply with the requirements of the Teknos Warranty, the Joinery Manufacturer must ensure quality and process control documentation is completed in full, and retained by the manufacturer for inspection in the event of a claim.

### Following best practice

The notes below highlight some of the key elements of best practice design incorporated into Teknos' extended warranty. For further information and detailed coating specifications please consult the Teknos Technical Department.

#### Joinery and cladding design

All exposed edges and internal and external mould details must have a minimum 3mm radius, to avoid thinning of the coating.

All non vertical surfaces must allow efficient water shedding, with a minimum slope angle of not less than 9°.

All furniture and fittings to be of stainless steel.

All component profiles to follow best practice design recommendations and for cladding:

- Gaps or recesses should be sufficiently wide (typically 3mm) to prevent capillary draw of water;
- Profile design should allow for individual boards to be removed and replaced without damaging adjacent boards or incurring significant maintenance cost.
- Installation and design must allow ventilation of the back of the boards and preclude moisture ingress. Only external grade, stainless steel, fixings should be used.

#### Fixings

Wherever possible, the design should incorporate secret fixing. Moisture ingress through surface fixings will cause localised saturation and discolouration of the timber, creating a weak spot for Blue Stain development and leading to localised failure.

**If factory finished Cladding boards are fixed through the face, a final site applied finish is required to ensure the integrity of the coating system.**

#### Factory finishing

When using vacuum or brush coaters, ensure the coating is uniformly applied across all weathered surfaces. Uneven film application may reduce service life and will require more frequent maintenance.

**All End grain must be sealed with Teknoseal 4000. This is especially important on finished boards cut during the installation process.**

#### Transport and site storage

Boards must be protected from the elements during transport.

Site storage areas should be well ventilated and not subject to extremes of temperature. Remove any airtight packaging before storage to ensure free ventilation and prevent condensation forming. Store the boards off the ground on suitable bearers.

If stacking finished boards face to face, always interleave with a protective paper or "Jiffy Foam". Avoid films that contain Plasticisers as these will adhere to the coating surface.

#### Final inspection

All joinery items are to be inspected by either the client's representative or the joinery manufacturer to ensure complete compliance prior to handover and completion of the Teknos Guarantee.

Any damage/defect must be made good, prior to handover, in accordance with Teknos' recommendations.

### Exposure conditions and redecoration intervals

Exterior joinery, manufactured from Medite Tricoya and fully protected by Teknos coating systems, would be expected to give a service life in excess of 60 years if the manufacturer's maintenance procedures are followed.

The unique properties of Medite Tricoya, in conjunction with best design practice, allows regular maintenance periods to be extended, though individual maintenance schedules will be influenced by location, exposure conditions and the type of finish specified.

Typical maintenance cycles for different design and climatic conditions are illustrated in the adjacent table.

Please consult Teknos for more details.

Design Factor*	Mild exposure	Moderate exposure	Severe exposure
Sheltered	12 years	9 years	9 years
Partial shelter	12 years	9 years	7 years
Exposed	10 years	7 years	6 years

\* BS EN 927-1

### Teknos UK and Ireland

Teknos is one of Europe's leading suppliers of industrial wood coatings. We provide technical support and delivery services throughout Western Europe from 3 service centres, located at Swerford, near Banbury, Livingston and Belfast. For further information, please contact your local service centre.

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