

This note is intended to give a guide to the typical exterior durability of Teknos joinery products and systems. It relates to coatings applied in the factory to well designed joinery, applied at the correct film thickness, and using the recommended application methods.

The products covered by this durability statement are:

Aqua Primer 2900	Translucent Basecoat Stain
Aqua Primer 2900	Opaque dipping/flow coating Primer
Aqua Primer 3130	Opaque Spray Primer
Anti Stain Aqua 2901	Hardwood Stain Inhibiting Primer
Anti Stain Aqua 5200	Softwood Stain Inhibiting Primer
Aquatop 2600	Opaque Colours
Aquatop 2600	Translucent Gloss or Satin

Many factors can influence the durability of exterior coatings, and the following points should be noted:

1. Exposure conditions can vary significantly in the UK. South facing elevations, coastal sites, and sunny exposed locations will, for example, all reduce to some extent the life to first maintenance. The lifetimes quoted are intended to give a reasonable guide in average UK conditions.
2. Sunlight (UV) degrades the lignin in the timber surface, shortening maintenance cycles. The pigmentation of the coating inhibits UV degradation in much the same way that sun creams protect exposed skin. If the pigmentation is low, as in light translucent shades, the protection factor is less than more heavily pigmented coatings such as whites and opaque colours. This is reflected in the maintenance frequency. Care is also required with very dark colours, such as blacks, which have high heat absorption in direct sunlight. At high temperatures, resin bleed and surface checking can cause problems with some timber species and require more frequent maintenance.
3. Good joinery design is critical to long term performance. In particular, sharp edges should be eliminated and all features should be designed to ensure efficient and fast water drain off. Beads must be coated all round, end grain should be fully coated with Teknoseal 4000 end grain sealer and break joints sealed using Teknoseal 4001 prior to installation.
4. Coated surfaces and adjacent rainwater goods should be regularly maintained and washed down, at least once per year, to remove surface pollution.
5. Some "chalking" of the paint film will occur over time due to the natural erosion of the microporous paint film. This is quite normal and does not detract from the system performance.
6. The timber species used in construction will also affect paint system durability. Some timbers naturally exude tannin from knots, which stains the topcoat or liquid resin which seeps through the coating leaving a sticky residue on the surface. These problems are normally seen after installation and though aesthetically unappealing often do not detract from coating performance. If this occurs, minor repairs can be carried out to restore the appearance and integrity of the coating by following Teknos' maintenance guidelines.
7. Oak joinery is often specified with a clear finish in an attempt to preserve its factory appearance. Unfortunately, oak will rapidly discolour in sunlight and darken if moisture penetrates unprotected joints or

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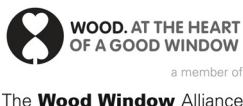
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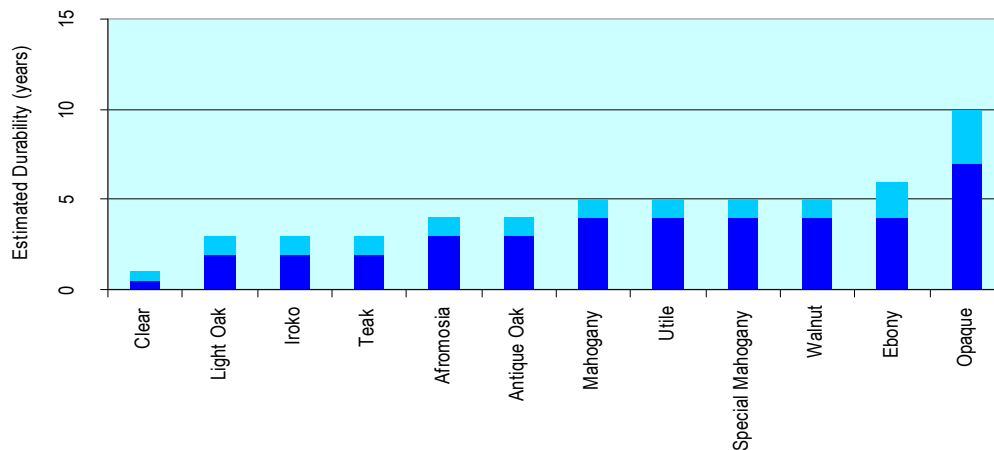
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end grain. Oak's natural durability means that these issues rarely cause a performance problem with the joinery, but aesthetically can be unattractive. Teknos can supply a system which compliments the features of Oak and gives performance levels comparable with light translucent systems, however regular maintenance is required to maintain the aesthetics.

- The table below gives an indication of the expected maintenance intervals for a variety of topcoats. The darker bar shows the lower level of expectation, the lighter bar the higher level e.g. for opaque colours a typical maintenance cycle would be in the range 7 to 10 years.

**Paint & Stain Durability
Aquatop Systems**



Coating Durability Guide

Translucent Systems

Primer	Midcoat	Topcoat	Typical Life
1 X Aqua Primer 2900 Translucent basestain			Six months
1 X Aqua Primer 2900 Translucent basestain		1 X Aquatop 2600 high build translucent	Up to three years
1 X Aqua Primer 2900 Translucent basestain	1 X Aquatop 2600 high build translucent	1 X Aquatop 2600 high build translucent	Up to Five years

Opaque Systems

Primer	Midcoat	Topcoat	Typical Life
1 X Aqua Primer 2900, 3130, Anti Stain Aqua 2901 or 5200			Six - twelve months
1 X Aqua Primer 2900, 3130, Anti Stain Aqua 2901 or 5200		1 X Aquatop 2600 high build opaque	Up to Five years
1 X Aqua Primer 2900, 3130, Anti Stain Aqua 2901 or 5200	1 X Anti Stain Aqua 2901, 5200 or Aquatop 2600 high build opaque	1 X Aquatop 2600 high build opaque	Up to Ten years

For film thickness and application guides, please refer to Teknos' "Typical Specifications"



The **Wood Window** Alliance



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