

Ancillary products - uses & applications

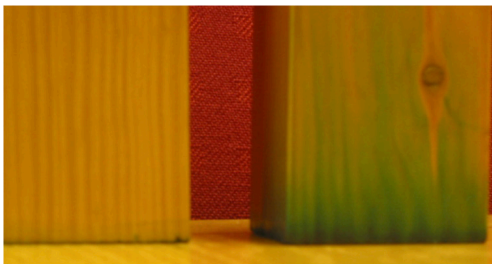
Good joinery practice

Choosing a good paint system will extend the decorative appearance and maintenance cycles on exterior joinery. However, to maximise service life particular attention has to be paid to protecting the areas vulnerable to moisture ingress.

Our ancillary products, incorporated into the factory coating process and subsequent maintenance, can greatly extend service life. They seal end grain, construction and break joints to prevent moisture penetration and decay.

TEKNOSEAL 4000: end grain sealing

The rate of water absorption in exterior joinery is several orders of magnitude greater through the end grain than through the face of a component. Unprotected end grain acts like blotting paper, drawing in moisture and creating ideal conditions for coating delamination, timber discolouration and ultimately rot.



The untreated end grain on the component on the right acts like a blotting paper, sucking in moisture.



After 24 months exposure, moisture ingress on the untreated end grain on the top of the right hand component has caused splitting, discolouration and adhesive failure at the cut edge.

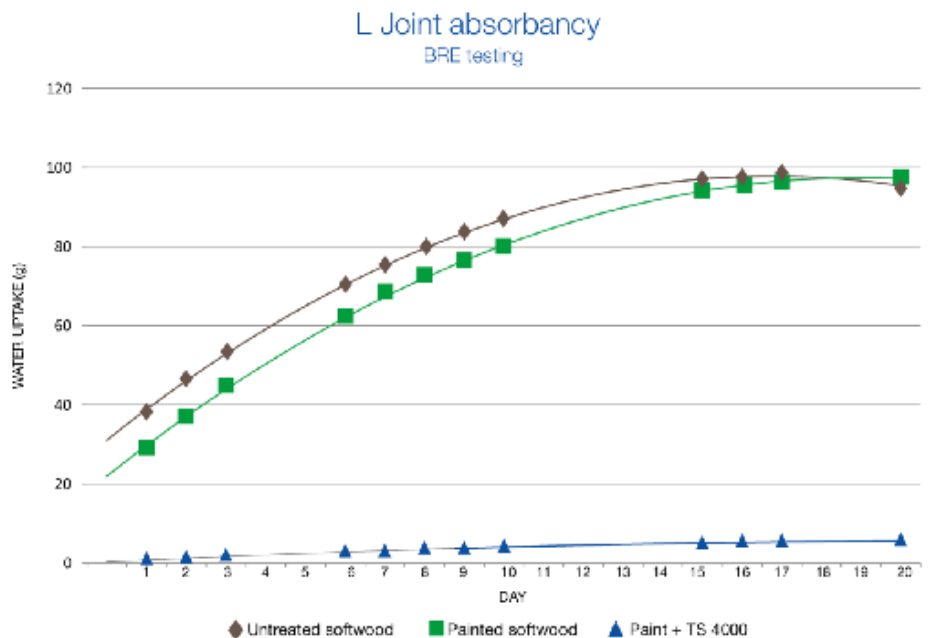
Painting and preservative treatment have little impact on end grain absorption and the only effective protection is to seal any exposed end grain.

The graph below shows the results of water uptake tests conducted for Teknos by the Building Research Establishment.

TEKNOSEAL 4000 is a water based end grain sealer that dramatically reduces the vulnerability of end grain to moisture ingress, extending both maintenance intervals and ultimate service life.

It is typically applied by brush, ideally in two coats, and dries to a clear finish in about 30 minutes. It can be applied to bare or primed timber, although on translucent systems it must be applied after base stain to ensure colour continuity.

A sprayable version, **TEKNOSEAL 4002**, is available for large areas such as MDF and fibre board sheeting.



Teknos construction joint protection

Rounded construction and break joints are an attractive and effective feature of modern joinery design but can expose end grain on the machined rounded or scribed edges and create water traps on horizontal joints.

Teknos **V JOINT SEALER**, applied by mastic gun, is a water based flexible sealant which dries to a clear finish and provides a smooth surface for subsequent painting. It is suitable for opaque finishes and for translucent systems when applied after the base stain has dried.

It is not intended as a filler because it has no structural strength and should not be used to bridge gaps.

To seal construction joints, apply a thin bead of the sealer to the joint area, wipe off any excess and smooth into the joint using a moist (but not wet) sponge. Teknos **V JOINT SEALER** changes colour from white to clear as it dries and can be over coated when completely colourless.

Teknos fine surface filler

Surface defects, checks and cracks around knots can be visually unattractive and disrupt subsequently applied coating systems, leading to localised breakdown.

Teknos FINE SURFACE FILLER 5001 is a single component, water based, white acrylic filler which, when applied by palette knife, fills and levels surface defects. It has excellent sanding properties and dries in around three hours to a smooth fine surface ready for opaque topcoat application.

It is particularly recommended for use around knots, where it enhances resistance to tannin migration. Anything in excess of 1mm deep should be filled with a two pack wood filler.

Teknos knotting: stain blocking solution

Knots in softwood are an attractive feature when the joinery is finished with a translucent coating system, but may cause staining problems if the joinery is coated with an opaque, and in particular white finish. There is no completely effective solution to resinous knot bleeding but treatment with a knotting solution and over coating with **KNOT INHIBITING PRIMER 5200** before topcoating will effectively minimise staining in most circumstances.

The knotting solution is applied by brush over the whole area of the knot with an overlap onto the adjoining sound timber and can be primed within one hour of treatment.

