

## Resin and knot staining

Site rectification

### Resin Exudation

**Resin bleeding is a natural occurrence in many timber species, and it's presence is normally not apparent when the joinery is initially manufactured, coated and fitted. With resinous timber exudation is most likely to occur on south facing elevations and on dark surfaces when the heat of the sun liquifies and mobilises the resin, drawing it to the surface.**

Although it may be unsightly, it is better not to remove fresh sticky resin. In practice, this can be very difficult, and the presence of sticky resin indicates that the exudation is still continuing.

When resin has exuded through a permeable coating, the best remedial treatment is to allow the resin to weather until it dries and oxidises, forming a white crystalline powder. The dried resin can then be removed with a stiff nylon or natural bristle brush, and any remaining residues washed off with a cloth.

Water based coatings, with their relatively high degree of moisture vapour permeability, are more likely to allow the passage of resin to the surface without damage to the coating, and if the finish is not damaged by over-vigorous scrubbing during crystal removal, re-coating is often unnecessary.

The remedial work for resin exudation is often best left until the first maintenance period, by which time the resin has normally fully crystallised. After removal as described above, the overall application of one maintenance coat of finish restores the general appearance of the timber and maintains its protection.

### Knot Discolouration

Knot discolouration is caused by the migration of water soluble tannins and whilst it will not impair the service life of the joinery it can be unsightly.

Tannin migration is influenced by many factors, and it is important to identify the probable cause of staining before starting any remedial work. If the underlying cause is still present (such as active preservative treatment), it is necessary to allow it to fully dry and stabilise before attempting remedial treatment.

There are a number of practical ways to restore the decorative finish if knot staining occurs and the options shown will normally give a satisfactory result if the coating surface is sound and has not been disrupted by physical resin exudation.



### Option One

This is a simple solution to remove surface discoloration created from the surface of the coating:

1. Ensure there is adequate ventilation in the area where the remedial work is required.
2. Clean down and wash the area to be repaired to remove all surface dirt and allow to thoroughly dry.
3. Moisten a soft cloth with Methylated Spirit and then wipe gently across the stained area until the stain has been removed. NB. Continued exposure of the coating to Methylated Spirit can soften the coating so care must be taken when carrying out this procedure.
4. In some cases faint discoloration may still remain and a localised application of the factory applied topcoat maybe required using a good quality synthetic brush.

### Option Two

This is a more extensive solution and involves the use of an additional coating to provide a more robust resistance to potential future staining from resinous extractives.

1. Lightly abrade the discoloured area with a fine grade abrasive paper.
2. Clean down and wash the area to be coated to remove dirt, and allow to thoroughly dry.
3. Spot prime all discoloured areas with a solvent primer such as Teknal 2500. Allow to thoroughly dry.
4. Feather out the repair using a fine grade abrasive paper.
5. Using a good quality, long haired, synthetic brush, designed for use with acrylic paints; apply a single coat of Aquatop 2600 in the appropriate shade/colour to the affected component. Allow to thoroughly dry.

*When carrying out any coating work, do not attempt to paint when the temperature is below 5 degrees Celsius, or if the relative humidity exceeds 80% as the curing and performance of the coating may be impaired.*

*If there is any doubt about the substrate or underlying paint film, apply the appropriate Teknos products to a small, inconspicuous area. Allow to dry for 24 hours and then inspect the appearance and adhesion to substrate.*

*Repair products can be obtained from any of the Teknos Service Centres listed below, and can be stored in frost free conditions for up to six months in sealed packaging.*

### Teknos UK and Ireland

Teknos is one of Europe's leading suppliers of industrial wood coatings. We provide technical support and delivery services throughout the UK and Ireland 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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