



ADVICE ON RISKS ASSOCIATED WITH COATING OVER FR IMPREGNATED WOOD

As demand continues to increase for coating systems suitable for application over wood products which have been modified, or treated with impregnation products, it is increasingly important to understand how different products interact when used in conjunction with the treated wood as a full system.

An increasing number of external façade end use situations require enhanced fire properties to meet local and national building regulations. One route to achieving the specified enhanced fire properties of a wooden substrate in a controlled manner is impregnation with fire retardant (FR) treatments through a certified factory process.

FR impregnation products are generally clear and leave no colour or film build after the impregnation process, although some residual additives may remain on, or beneath the surface of the wood. It may then be desirable for specifiers, architects or end users to achieve a coloured (opaque) or translucent paint finish to enhance visual properties of a project.

Remaining mindful of the extended performance scope for fire treated wooden substrates, it is vital for the chosen / specified coating system and the FR impregnated timber to be fully compatible in all aspects of the end use service requirements and exposure conditions.

In addition, the FR treated and coated article must be tested, classified and certified as a full system for its reaction to fire performance to be placed / sold on the market. This ensures the system is appropriate for the particular end use desired and allows compliance with the construction product regulation (CPR).

Common problems associated with coating and impregnation systems need to be considered, such as:

- Leaching of the impregnation additives
- Coating adhesion
- Moisture uptake

Also consider important factors such as:

- Component / construction design
- Planned inspection intervals
- Maintenance cycles.

It is only possible to confirm long term aesthetic and weathering performance of a treated and coated article through a planned, designed, tested and documented process of compatibility.

Without this, Teknos disclaim any liability to aesthetic, performance and weathering protection properties of coatings used over fire impregnated treated timber.

For further support, contact your local Teknos FR coating expert