

WOOD TREATMENT

■ Application process

We apply a coloured impregnating emulsion to the wood we use. This surface coating is not harmful to the environment. It contains less than 2% solvent. For your information, a conventional surface coating with solvents contains more than 50% solvent.

Application of the surface coating is fully automated. The entire process is computer-driven. The application technique enables us above all to obtain a constant, uniform quality of finish, irrespective of the item to be treated.

Application is done on fully machined pieces hanging vertically. The pieces of wood are given two coats of surface coating in two stages.



■ Step 1 : Colour equaliser

The first impregnating coat is sprayed on (flow coating technique). This coat is called the “primer” or “undercoat”. It is coloured and contains a fungicide and an insecticide. The wet protection thus obtained is 60µm.

After drying, evaporation of water, therefore the protection is 20µm (dry extract).



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■ Varnish sanding

Given the composition of the products used (water-based), application must be done on a clean, smooth surface.

Varnish sanding is a light sanding that removes any raised wood fibres and obtains the desired surface quality for this fresh surface coating.



■ Step 2: Finish Coating

The second coat is applied using an electrostatic process with fully automated spray guns. The cabin contains four spray guns.

The surface coating used is also an emulsion. It is very slightly coloured in order to obtain enhanced resistance to UV.

For the surface coating to be able to adhere to the wood and be evenly distributed, it is charged to 70,000 volts at a current of 60 mA. The damp protection thus obtained is 250µm.

After drying, evaporation of water therefore, protection is 100µm (dry extract). The total protection thickness of the pieces thus obtained is 310µm (wet) and 120µm in dry extract in two passes. Total drying time is approximately two hours.

