



## Glued laminated timber painting technology

Materials supplier: Mendeleev Ltd.

Compositions used: Dimet® Ultra-Antiseptic Impregnation.

Date of operation: August-September, 2011.

Air temperature: 9 to +12°C.

Relative air humidity: 85 to 99%.

Glued laminated timber (Glulam) is a new technology in wooden constructions building. One of the advantages of glued laminated timber is that it is deformation-resistant. It provides a perfectly new level of architectural creative work, as the glued construction is not limited by span width, depending on a timber length.

Pic.1 – Glued laminated timber.

Glulam is made from wood of coniferous species, which is sawn and treated in drying chambers to the relative humidity 8 to 12%. There may be several bars to be glued, which makes the laminated timber durable and size-independable. For gluing bars with one another special two-component high-tensile glues are used which do not prevent wood from “breathing”.

Pic.2 – Glued laminated timber treated with an antiseptic agent

Painting bars with scumbling agents is a complex and labor-consuming process. The bars being glued have both different density and fibers direction. To match the joints of the bars in color tinge one should strictly observe the following procedure. Firstly, the surface of the timber is preliminarily cleaned from dust and dirt. Secondly, in order to avoid defects during glulam painting, a layer of colorless Dimet® Ultra-Antiseptic Impregnation preliminarily solvent-diluted. It is completely absorbed into the surface being painted, strengthening the upper wood layer. The colorless impregnation acts in this case as an antiseptic primer. Thirdly, a repeated wood painting is to be carried out. Dimet® Ultra-Antiseptic Impregnation is applied onto a surface with a sprayer.

Pic.3 – Bars painted with Dimet® Ultra-Antiseptic Impregnation, mahogany color.

In Pic.3 a treatment with colorless impregnation as primer coating and a mahogany color antiseptic application is shown. There is no tonal mismatch here, unlike two-layer pigmenting agent painting without primer.

Pic.4 – Timber surface: a)not painted, b)correctly painted, c)painted with technology violation

The customer preferred Dimet® Ultra-Antiseptic Impregnation of mahogany color.

Pic.5 – Timber painted with Dimet® Ultra-Antiseptic Impregnation.

Dimet® Ultra-Antiseptic Impregnation tints wood in various colors – lemon, mahogany, walnut, white and red oak, rosewood. Pic.5 – A wall is protected against deterioration with Dimet® Ultra-Antiseptic Impregnation, cherry color.

Pic.6 – The interiors finished with bars treated with the colorless impregnation of Dimet® trade mark.

Dimet® Ultra-Antiseptic Impregnation can be used for both interior and exterior works. The compound is quick-drying, drying time: approx. 1 hour.

Pic.7 – Antiseptic agent for wooden articles.

Owing to a special combination of resins of various molecular weight and solvents selection Dimet® Ultra-Antiseptic Impregnation possesses good permeating ability.

Pic.8 – A house built with glued laminated timber decoratively treated with Dimet® Ultra-Antiseptic Impregnation.

Houses built with glued laminated timber become more and more popular today. A modern house built with this



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material is cosy, good-looking and comfortable. Besides, environmental safety is one of the decisive factors nowadays. Dimet® Ultra-Antiseptic Impregnation, used for decorative treatment of glued laminated timber, meet all these requirements. Dimet® Ultra-Antiseptic Impregnation was designed with due regard for the most recent environmental safety requirements. The compound was valued high by medical experts, who characterized it as safe and reliable agent for wood articles antiseptic treatment and preservation.

- dulux
- feidal
- pinotex
- protex
- sadolin
- antizhuk
- antiseptic wood impregnation
- glued laminated timber bath-houses
- biodeterioration
- timber houses
- dyufa
- antiseptic wood impregnation
- healthy house
- neomid woca
- ognebiostop
- saw timber in saint petersburg
- profile timber without shrinkage
- satin
- senezh
- wooden house building
- teks
- teksturoł
- tikkurila
- tonerol
- transcensent inpregnation