



TIKKURILA

## VALTTI PLUS COMPLETE

### DESCRIPTION

Quick drying, highly durable satin varnish for exterior wood. Based on innovative Triple Resin System, Valtti Plus Complete provides the highest levels of resistance and protection to wooden surfaces from all weather conditions (humidity, sun, variable temperature). Additionally Valtti Plus Complete contains the Double Barrier UV System providing increased protection against the effects of UV radiation. Thixotropic properties ensures ease of application and reduces sagging and dripping. The product available in ready made shades and also in tintable version to a wide range of attractive and durable colors, which enhance the natural beauty and structure of wood. Tikkurila - more than 150 years of experience in wood preservation.

### RECOMMENDED USES

Can be used for painting of smooth and sawn exterior timbers hard and softwoods, industrially impregnated wood, Thermowood and exotic wood. Recommended for use on: facades, wooden logs, garden furniture, gazebos, windows, doors, fences, railings, small garden architecture. To secure the terraces, stairs, platforms, we recommend to use Tikkurila Valtti Plus Terrace Oil, Tikkurila Valtti Plus Wood Oil or Tikkurila Valtti Wood Oil.

### PRODUCT FEATURES

#### EXTREMELY DURABLE PROTECTION - UP TO 12 YEARS

- Satin surface with increased resistance to mold
- Triple Resin System - the highest resistance to weather conditions, due to 3 resin blend
  - Protection of wood against cracking and peeling
  - Ability to repel water and moisture
  - Creates extremely durable coat thanks to effective impregnation and bonding ability to the substrate
  - Increasing the life of wood thanks to sealing and filling microcracks
  - Increased resistance to scratching and abrasion

#### HIGH COLOUR DURABILITY

- Double Barrier UV System – a synergy of two UV filters ensures the highest resistance to destructive UV radiation
  - Stable and uniform color
  - Increased protection against loss of gloss, chalking and cracking

#### QUICK DRYING FORMULA

- Immediate wood preservation after 1h from application (even in case of rain)
- Painting in 1 day: application of another coat after 2h

#### SAVING COST OF PAINTING

- Extremely high coverage - up to 18 m<sup>2</sup>/l

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TECHNICAL DATA	
<b>Base paints</b>	EP BASE
<b>Colour Shades</b>	<p><b>Color cards:</b>            Tikkurila Valtti Plus Complete, Valtti - Semi-transparent wood finishes.            Colours from Tikkurila Semi-Transparent Wood Finishes and Tikkurila Deco Grey.            Ready made shades: Black Ebony, Amber Teak, Ash Grey, Off White, Golden Oak, Medium Nut, Natural Pine, Dark Rosewood, Italian Pine, Cherry, Mahogany, Light Oak            The final color will depend on the wood type, the amount of applied product and the original color of the substrate. Painting with colorless product is allowed, however, the tinted product increases the durability of a painted surface.</p>
<b>Gloss</b>	Matt. Satin finish.
<b>Coverage</b>	Up to 18 m <sup>2</sup> /l per one coat for application on smooth woode surfaces, depending on the type of wood and the moisture content and the amount of applied product.
<b>Can sizes</b>	EP BASE: 0.9 l, 2.7 l, 9 l FACTORY READYMADE SHADE: 0.75 l, 2.5 l, 5 l
<b>Drying time</b>	In the temp. + 23°C, relative humidity 50%: Touch dry after approx. 1 hour; application of the next layer after approx. 2 hours. The type of wood, low temperature and high humidity can increase the drying time.
<b>Density (kg/l)</b>	1,026.
<b>Volume solids (%)</b>	27
<b>Weight solids (%)</b>	28
<b>VOC</b>	Cat. A/e. Acceptable content VOC since 2010r. - 130 g/l. Product contains below 130 g/l VOC.
<b>Storage</b>	Protect from frost. Badly closed or short cans endure badly long-time storage. Use opened product during same painting season since product properties change in short container.

The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.

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## APPLICATION INSTRUCTIONS

### Application conditions

All surfaces to be painted must be dry and humidity of wood under 20%. Application in the temperature of the air at least above +5°C and below +25°C, and the relative humidity of the air below 80%.

### Surface preparation

Before application all surfaces and sharp edges should be rounded for example with sand paper. Surface to be painted should be thoroughly cleaned from bark, bast, soil, grease, oil, mould, wax, fungus, pests or other contamination which reduce adhesion of the surface. Remove lime, cement or mortar flakes, if they will be left they will stain the wood and may also influence the durability of applied surfaces. Remove knot (lack fill with clean wood) or leave (protect with specialist chemical agents). Defects, losses should be filled with wood; damages, cracks should be filled with putty for wood in colour which is slightly lighter than required colour. For mould removal and surface cleaning it is recommended to use Tikkurila Homeenpoistotabletti. Previously stained, existing, glossy coating and substrate thoroughly roughened to ensure proper absorption of the stain through the substrate. If necessary, completely remove the existing coating. Suitable roughen elements is especially important in areas with wooden logs. Protect the plants against splashes during application. In case of renovation of old surfaces and application of the product on the hard and exotic wood species perform paint testing. Obtaining a positive result also depends on the final use of the product.

In order to increase wood protection it is recommended to use Tikkurila Valtti Guard Plus in the following cases:

- painting elements and wooden architecture and raw wood exposed to increased humidity and atmospheric conditions,
- effective protection against fungus and blue stain: fungus Basidiomycota which decompose wood, blue stain fungus,
- reduce absorbency of the wood and reduce the consumption of products topcoats, for example Tikkurila Valtti Plus Complete.

### Top coating

Before using the product mix thoroughly. This must be repeated in the course of painting. Secure the right amount of product from one production batch. Apply two coats of the product and rub it along the grain of the wood with a brush or sponge to avoid overlapping layers on each other. Apply a thicker layer of impregnate on the end grains of the wooden elements. The final color will depend on the type of wood, the method of application and the amount of product applied.

### Cleaning of tools

Clean tools with water immediately after use. Remove as much paint as possible from painting tools before cleaning. Clean the tools with water and soap. Before washing tools should be thoroughly wiped in order to remove as much paint. Clean with water and soap immediately after use.

### Environmental protection and waste disposal

Do not pour liquid waste into drains. Empty cans as well as cans with liquid waste should be taken to a disposal according to the local regulations. For more information please contact local authority. Note! Risk of self-ignition of used cleaning rags, paper wipes etc. Contaminated materials can create fire some hours later and should be soaked in water and placed in a closed metal container before disposal.

### Health and Safety

Wear protective gloves. Contains 1,2-benzisothiazol-3(2H)-one (BIT), reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (C(M)IT/MIT (3:1)), 2-methyl-2H-isothiazol-3-one (MIT) and 3-iodo-2-propynyl butylcarbamate (IPBC). May produce an allergic reaction. This surface treatment agent contains a biocidal product for the preservation of the dry film. Contains 3-iodo-2-propynyl butylcarbamate (IPBC). This product contains a biocidal product for the preservation of the product during storage. Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (C(M)IT/MIT (3:1)), 1,2-benzisothiazol-3(2H)-one (BIT), 2-methyl-2H-isothiazol-3-one (MIT) and 3-iodo-2-propynyl butylcarbamate (IPBC).

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