

Construction Resources



HOLZWEG VOLVOX TECHNICAL SHEET V3

UV PROTECTION VARNISH –Thin Layer and Thick Layer

- Uses** *Volvox UV Protection Varnish and Primer* is a system for the protection of all new and stripped exterior woodwork exposed to UV rays. Its semi-gloss finish emphasises the grain of the wood whilst allowing the timber to breathe. It may also be used internally on windows, doors, sills, etc. It is not suitable however for timber that is in direct contact with the ground.
- Properties** *Volvox UV Protection Varnish* gives 100% ultraviolet protection to all exterior and interior woodwork. It is the first natural system to meet the requirements of the Institute for Window Technique (IFT) for 99.9% UV protection. It is flexible, water resistant, weather- and abrasion-proof. It penetrates well and maintains the moisture diffusion or 'breathing' qualities of the wood. It does not flake, peel or blister making maintenance easier and quicker.
- Thin Layer** *Volvox Thin Layer Varnish* is for use on timber facades and cladding, which can expand and shrink quite a bit in different weather conditions. It contains fewer solid particles than the Thick Layer (approx. 33%) and is therefore less dense at about 0.769 g/m³. It is not suitable for doors, window frames or other more stable exterior woodwork.
- Thick Layer** *Volvox Thick Layer Varnish* only is for use on doors, windows and other more stable exterior timber. It contains more solid particles than the Thin Layer (approx. 45%) and is therefore denser at about 0.9 g/m³.
- Colour** Clear.
- Container** 0.75 litre, 2.5litre and 10 litres.
- Coverage** 1 litre of Volvox UV Protection Varnish will cover 8-12 m² on a smooth wood surface of average absorbency.
- Preparation** The surface should be smooth, clean, grease-free, absorbent and dry. To achieve full protection, surfaces should be pre-treated with two coats of Volvox UV Primer (see technical sheet V2). The primed surface should be lightly sanded before varnishing.
- Application** Do not apply at temperatures below 8 degrees centigrade. Shake the tin well and stir the varnish thoroughly before use. Volvox UV Protection Varnish may be applied with brush or spray. Apply generously and evenly. For maximum protection, exterior work should have three coats. Two coats will be sufficient for less exposed areas. If, after the first coat, the finish is not shiny, then the wood is very porous and at least two further coats are required. Each coat should be allowed to dry completely before the next coat is applied. It is recommended to apply one additional coat of varnish to window sills.

Use Holzweg Balsamic Turpentine to clean brushes and tools.

Maintenance Look for the varnished surface becoming matt and discoloured. This indicates that the old varnish layer is getting thinner and requires a new coat. If there are just small patches of discoloration, the affected areas should be treated with another coat of Volvox UV Protection Varnish. If however there is significant discolouration; the affected areas should be sanded back and given fresh coats of primer and varnish.

It is recommended that the surface receive a refresher coat after 3-5 years. Clean surface, lightly rub down and re-apply.

Drying times Depending upon temperature and humidity, Volvox UV Protection Varnish is touch-dry after 5 hours and fully dry after 8-12 hours. Fully hardened after one week.

Storage Tightly sealed in the original container, in a cool but frost-free place.

Ingredients Linseed oil alkyd, Soya oil alkyd, boiled wood oil and copal mixture, lacquer linseed oil, iso-paraffin, citrus terpenes, eucalyptus terpenes, pine oil, silicic acid, bentone earth, micro titanium oxide, Soya lecithin, lead-free drying agents.

Technical Data

Thick Layer varnish absorbs more than 99.9 % of UV light with one coat, in the critical area of 300 nm, corresponding to an extinction of $E = 3.596$. This means that the requirements of the IFT institute of 99.9% are met by applying a single coat. Extinction values are double for two coats. Absorption is thus 100 %.

Specific weight (density): 1.0 g/ml;

Solid material content: 60 weight %;

Viscosity (20 °C): 60 sec for 4 mm DIN container;

Dry coat thickness (two coats): approx. 85 μ m;

Wet coat thickness (one coat) approx. 60 μ m;

μ -value (170 μ m): 11296;

Vapour resistance: 10.2MNs/g

Safety **This product is flammable;** keep away from fire and other sources of ignition. Use only in well-ventilated areas. Avoid contact with skin and eyes; wear gloves to apply. Do not smoke, eat or drink during use. Store closed in the original container in a cool place. Always allow used rags to dry unfolded to avoid self-ignition. Keep out of reach of children and animals. Although all ingredients are biodegradable, left-over varnish should not be put down drains. To safely dispose of unused varnish, allow to dry out before throwing away.

Risk class Flammable! GGVS Class 3.3. UN number 126.3.

This technical information sheet is intended to provide guidelines for retailers and users. However, the user is responsible for testing the product on the intended surface to make sure that it is suitable for their requirements. This sheet was issued in October 2001 and may be superseded by later editions.

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