

## Wood Varnish Water-based

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### Description

A water-based, solvent-free, open-pored, silky matt varnish with mineral ingredients for UV protection. Based on natural ingredients BioPaints Wood Varnish Water-based provides a semi transparent, highly elastic finish which allows timber to breathe. Approved for use on toys according to European regulations.

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### Uses

As a finish for exterior timber surfaces, including:

- Windows and doors, wood panelling, timber ceilings, cladding, fences, toys
- Blonding timbers (interior use only)

**Note:** Not recommended for outdoor furniture, decking or for areas that are constantly wet. Clear and white are not suitable for exterior use.

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### Coverage

- 9-12 m<sup>2</sup> per litre for first coat; 12-16 m<sup>2</sup> per litre for second coat; 13-18 m<sup>2</sup> per litre for third coat for dressed and sanded timber
- Coverage for rough sawn timber can go down to half or more of the values above.

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### Container Sizes

- 500mls, 1 Litre, 2 Litre, 4 Litre.

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### Ingredients

Water, castor oil, safflower oil, tung oil, linseed oil, turkey red oil, fat alcohol ester, titanium dioxide, borax, lactic acid casein, cobalt lineolate, polysaccharide, diatomaceous earth (in white and clear only) and cobalt, zirconium and zinc octoate driers, and pigments as per colour. BioPaints Varnish Additive also contains zinc oxide.

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### Preparing the Surface

1. Prepare the surface in accordance with standard practice.
2. For reapplication of BioPaints Wood Varnish Water-based see 'Maintenance'.
3. Remove all other coatings down to bare timber.
4. Ensure the surface is clean, well sanded, free from grease and dry with a maximum moisture content of 12%.
5. Wipe timbers containing high amounts of resins or terpenes with methylated spirits, using a lint free cloth - especially on rimu, matai, oak, some tropical timbers, etc. Allow to dry.
6. **Always test for suitability on your substrate.**

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### Applying the Product

1. Do not use below 12°C, in very high humidity or direct strong sunlight on very hot days.
2. Stir thoroughly before using.
3. Ventilate well when working with the product and while it is drying.
4. Only use soft, flat brushes with synthetic or mixed bristles – the product dries very quickly and brushes should be soaked in BioPaints Heavy Duty Cleaner during breaks in the painting. Rinse thoroughly with water before resuming painting.
5. Apply in thin and even coats brushing with the grain. Spread well and brush out runs and uneven patches immediately.
6. Finish a given area without stopping.
7. Sand between coats with 240 grit. If the varnish does not form an even film when applying the next coat, wipe surface with methylated spirits first.
8. For exterior use:

Add 65mls BioPaints Varnish Additive to 1 litre BioPaints Wood Varnish Water - based. This speeds up the drying process and makes the finish more fungi and weather resistant and should be used for all coats. When used on cladding, varnish the boards on all sides before installation. Apply a total of 3 coats. On new timber apply the first 2 coats within 14 days, or before installation. Apply the last coat within 4 weeks. Apply 3 coats to windows, both inside and out.

9. Never pour the product onto the surface as this will result in patchiness and staining that sanding will not remove.
10. Spraying details: best applied with a compressed air system 3 bars with a nozzle of 1.7mm. For interior use, BioPaints Wood Varnish Water-based can be diluted up to 30% water, for exterior use up to 10%. Check spray equipment instructions.

**Note:** Do not apply a clear coat of Water Based Wood Varnish over a coloured coat.

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### Drying

- Touch dry in 6-12 hours at 20°C/50-55% relative humidity.
- Allow 24 hours between coats.

**Note:** The drying time of the product is prolonged by:

high humidity and/or low temperatures during application and drying time; absorption of natural terpenes, oils, waxes or resins from the substrate; poor ventilation and thick coats.

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### Cleaning

- Soak brushes immediately in undiluted BioPaints Heavy Duty Cleaner. Wash thoroughly with water the following day. If necessary repeat until brushes are free of oily residues.
  - Rinse spray equipment with a mixture of 1 part BioPaints Heavy Duty Cleaner to 10 parts water. Clean again, if necessary, with BioPaints Thinner.
  - Wash in sinks that flow to sewers, not storm water drains.
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### Maintenance

- Clean only after fully hardened. Use a gentle non-abrasive pH neutral cleaner. We recommend BioPaints Household Cleaner. Never use harsh cleaners, soapy alkaline solutions or ammonia solutions.
  - When recoating ensure the surface is clean and remove any flaky varnish. Sand lightly before reapplication and wipe with methylated spirits if necessary.
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### Safety Precautions

Natural ingredients can still be harmful to users and the environment if misused, or if accidents occur, so please carefully observe the following:

- Keep out of reach of children.
  - Use with adequate ventilation.
  - Avoid skin contact.
  - **Keep work materials soaked in BioPaints Wood Varnish Water-based, such as rags, sponges, sanding dust and contaminated clothing in an airtight container, or rinse in water and spread out to dry on a non-combustible surface - danger of spontaneous combustion.**
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### Storage

- Keep tightly sealed in a cool, dry, frost-free place.
  - Once opened use as quickly as possible.
  - Remove any skin that has formed in open containers and sieve if necessary before use.
  - BioPaints Wood Varnish Water-based may start to thicken slightly after 2-3 weeks if BioPaints Varnish Additive has been used. If this occurs, thin with 10-20% water before using again.
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### Disposal

- Do not dispose of in drains and wastepipes.

- Let waste dry out and recycle empty containers where possible. Dispose of according to council regulations.

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**Disclaimer**

**The above information is given as a general guide only. Site conditions will vary and it is always advisable to apply a test sample. Failure to follow the above instructions will void any implied warranties attached to the product. This supersedes any previous data sheets.**