

## Hard Varnish

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### Description

A colourless, high-quality product made from natural oils, waxes and tree resins. BioPaints Hard Varnish forms a medium-hard, elastic, antistatic surface which is breathable and water-repellent. Available in a matt or gloss finish. Special care must be taken with natural products, including wood surfaces, to avoid scratching and marking – see “Maintenance” below for care tips.

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### Uses

As a finish for interior timber surfaces, including:

- Floors, windows, doors, architraves etc.
- Furniture
- Toys (approved for use on toys according to European regulations)
- Cork
- Chip board, MDF etc.

**Note:** Caustic substances, such as soaps and bleaches, may mark surfaces coated with BioPaints Hard Varnish.

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### Coverage

- 14-17m<sup>2</sup> per litre depending on the absorbency of the timber.
- 4-5m<sup>2</sup> per litre approximately for first coat on MDF, cork, chipboard and absorbent substrates.

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### Containers Sizes

- 500mls, 1 Litre, 2 Litre, 4 Litre, 10 Litre.

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### Ingredients

Aliphatic hydrocarbons, colophony resin ester, castor oil, microwax, clay, succinic acid ester, anti-oxidants and zinc, zirconium and cobalt octoate driers. With silicic acids in matt only.

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### Preparing the Surface

1. Prepare the surface in accordance with standard practice.
2. For reapplication of BioPaints Hard Varnish see ‘Maintenance’.
3. Previous coats must be removed.
4. The surface must be well sanded: floors with 120-180 grit; furniture with 180-240 grit.
5. Ensure the surface is clean, free from grease and dry with a maximum moisture content of 12%.
6. Wipe timbers containing high amounts of resins or terpenes with BioPaints Thinner, using a lint free cloth - especially on rimu, matai, oak, some tropical timbers, etc. Allow to dry.
7. If glue is used in a laid timber floor, ensure it is fully hardened before applying product.
8. **Always test for suitability on your substrate.**

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### Applying the Product

1. The floor/surface temperature must be at least 16 °C. Heat area over night if necessary.
2. Stir thoroughly before using.
3. Ventilate well when working with the product and while it is drying.
4. Apply 1 priming coat-see table for relevant primer. Cork may require more primer coats.
5. Apply 2 thin coats of BioPaints Hard Varnish with a brush, roller (suitable for oil-based products) or spray gun. Take care to spread it evenly.
6. Never pour the product onto the surface as this will result in patchiness and staining that sanding will not remove.

7. Spraying details: air pressure 3-4 bar with a nozzle of 1.5–1.8mm. Airless spraying requires 2-2.5 bar (flat jet) with a 0.23-0.28mm nozzle. Can be thinned with 10-15% BioPaints Thinner. Check spray equipment instructions.

Surface	Priming Coat	Finishing Coats
Timber floors with non-compatible old coatings	Remove coating and sand well. Continue as with 'Sanded Timber Surfaces'	Minimum of 2 coats BioPaints Hard Varnish.
Sanded timber surfaces	1 coat BioPaints Priming Oil; or BioPaints Universal Priming Oil; or 1 coat of thinned BioPaints Hard Varnish (thinned 20-30%)*	Minimum of 2 coats BioPaints Hard Varnish.
Cork surface	1-2 coats BioPaints Priming Oil or BioPaints Universal Priming Oil	Minimum 2 coats BioPaints Hard Varnish (Gloss recommended)
MDF/Chipboard	1 coat of thinned BioPaints Hard Varnish (thinned 20-30%)*	Minimum 2 coats BioPaints Hard Varnish.

**Note:** One primer coat and two topcoats are usually sufficient. \* Thinning is with BioPaints Thinner.

### Drying

- Touch dry in 6-12 hours at 20°C/50-55% relative humidity.
- Can be recoated after 16-24 hours. Optional sanding between topcoats.
- Use carefully after three days, and fully hardened after 10-14 days.

**Note:** The drying time of oil-based products 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.

### Cleaning

- Clean implements immediately after use with BioPaints Thinner.

### Maintenance

- Clean only after fully hardened. Use a gentle non-abrasive pH neutral cleaner. We recommend BioPaints Household Cleaner.
- A regular maintenance coat of BioPaints Floor Care will refresh the surface and prolong the life of the varnish. Refer to Maintenance and Cleaning Advice Sheet.
- When recoating BioPaints Hard Varnish, clean surface well and degrease if necessary, sand lightly. When BioPaints Floor Care has been used as a maintenance product, floors must be degreased before being recoated and lightly sanded.
- Add felt pads to chair and table legs to protect floors from furniture movement. Natural floors can mark and scratch easily and removing outdoor shoes is also an advisable move - stones stuck to shoes will cause a great deal of harm to wooden floors.

### 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; do not breathe fumes or vapour.
- **Keep work materials soaked in BioPaints Hard Varnish, 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.**

### Storage

- Seal well and store in a cool and dry place.
- Remove any skin that has formed in open containers and sieve if necessary before use.

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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.**