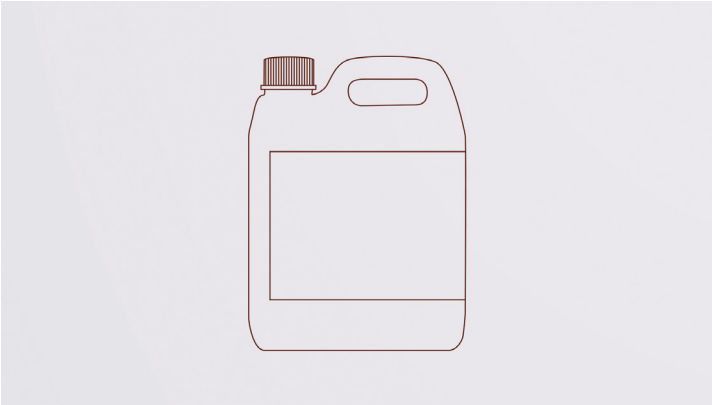
Protector



Overview

A water borne, penetrating timber finish that will nourish and protect external timbers.

Protector uses the latest in water borne oil technology combining refined plant oils, UV protection, advanced water barrier composition and an enhanced fungicidal package for superior exterior performance.

Uses

Exterior timber cladding, decking*, railings, pergolas.

Colours

*Pigmented colours are not recommended for decking, as can be subject to tracking marks/ unevenness in weathering. Clear is recommended in this application. Clear finish offers no UV protection and will weather to a silver grey over time.

Standard colour range:
Applied onto Thermally Modified Pine

Vulcan Nero | Vulcan Ebony | Vulcan Graphite | Vulcan Walnut | Vulcan Teak | Vulcan Clear | Vulcan Natural | Vulcan Straw | Vulcan Patina | Vulcan White

Some colours may not be stocked in the UK, please enquire for availability and lead time prior to specification.
Colours are indicative only and may fade or change with exposure to the weather.

Product specifications

Ingredients:	Water, refined plant oil, medium oil alkyd, zinc & lead free driers, low VOC co-solvent, mouldicide, earth oxide pigment.
VOC content:	<85g/L.
Coverage:	(Approximate only).
Expected shelf life:	Approx 4 years (in an unopened bottle, subject to correct handling).
First coat/Second coat:	Hardwoods: e.g. Kwila. 7 - 10 sq metres/litre 10–14 sq metres/litre. Softwoods: e.g. Pine and Macrocarpa. 6-8 sq metres/litre 10-12 sq metres/litre. Sawn face timber/ Old dry softwoods: e.g. 5 year old pine. 4-6 sq metres/litre 8-10 sq metres/litre.

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Product handling

- Store with lid tightly closed in a cool place out of sunlight, with ambient temperature min 5degC - max 30degC. Limit temperature variation to no more than 5degC in a 24 hour period.
- Clean up with water. Soap may be used to assist with cleaning of brushes. Keep out of drains and waterways.
- Soak cloths in warm soapy water, rinse and hang to dry as they may self ignite if left unattended.
- Keep out of reach of children. Use in a well ventilated area. If swallowed, seek medical advice.

Flash point

>63 degrees Celsius. (Non-DG for transport).

Full SDS available on request.

Preparation

1. If timber has been exposed to the weather clean the timber surface with an oxalic acid based wood cleaner, or equivalent – apply with a soft brush according to manufacturer's instructions. Rinse timber thoroughly with low pressure water and leave to dry.
2. Ensure timber surfaces are clean, dry and free from saw dust or metal filings. DO NOT apply oil to timber where the moisture content is above 16%.
3. Smooth dressed timber must be thoroughly sanded with max 120 grit sandpaper prior to application of coating.
4. If timber is located outside, make sure the weather will remain with out rain for at least 48 hours, to allow the coating to dry.
5. It is possible that Protector may be applied over other penetrating oil finishes, provided that the coating is able to penetrate into the wood surface. Always make a small test prior to full application. Protector can not be applied over film forming coatings or paints. In this case the original coating must be stripped back to expose raw timber before application of Protector.
6. Protector may be overcoated with most paints and stains. If over-painting apply alkyd primer prior to acrylic top coats. Always make a small test prior to full application.
   - For joinery applications where pigment rub-off is of concern e.g. windows/doors, a final top coat of Protector Clear may be applied over the top of pigmented base coats.
7. NOTE: If timber is new hardwood, or has high-tannin content, it is recommend to allow weathering of timber for 3-6 weeks, wash down with oxalic acid followed by application of one liberal, all round coat of sealer prior to oiling. This will help resist warping, cracking, rapid moisture transfer and tannin leach out.

Application

Hand application:

1. Shake/stir well prior to and during use ensuring all pigment is agitated. Do not thin product.
2. Apply two thin even coats with a brush or applicator pad minimum of 2 hours apart. In colder temperatures (5-15° Celsius) allow minimum 4 hours between coats. Make sure boards are coated in one pass along the board length to avoid lap marks. One coat only is required when rejuvenating existing oiled timber.
3. If accessible, apply one liberal coat to rear surfaces and ends of timber to facilitate all round protection.
4. Lay back surface evenly with a dry lint free cloth or speed brush to remove excess oil prior to drying. The coating should sit into the surface of the timber, not on top.

Dry time will vary according to weather conditions, though may be up to 3 days. In colder conditions dry times will be slower. Do not apply coating in temperatures less than 5° Celsius.

NOTE: Hardwoods or tight grain timbers will absorb less product so may require lower application rate/additional wiping back.

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Application precautions:

1. Will not penetrate existing coatings or hard late wood bands. For best results wipe off excess stain with a dry absorbent lint free cloth rubbing along the grain.
2. This is a penetrating stain, unevenness in the timber grain, surface preparation and or application will result in differential appearance. Apply evenly and do not allow overlapping areas to dry during application.
3. Do not apply in direct sunlight and take care under warm/hot conditions. Do not apply when temperatures are less than 5° Celsius.

Machine spray application:

This information is for guidance only- adjustment to suit your particular equipment may be necessary.

1. Shake/stir well prior to and during use. Do not thin product.
2. Ensure timber is clean and free from sawdust or metal filings. Thoroughly sand smooth dressed timber prior to coating.
3. Use airless spray equipment - suggest tip size 0.18-0.21 inch.
4. For automatic infeed, use line speed of approximately 30 LM/minute.
5. Ensure coating is applied sparingly so it sits into the timber after drying (not on top). If required adjust machine settings to reduce volume of coating going onto timber.
6. Addition of a coarse bristle brush on the outfeed is recommended to dissipate surface tension and give smoother pigment build, especially on smooth dressed timber.
7. Rack dry for at least 2-4 hours between coats.
8. Allow 24 hours drying time before placing timber into block stack.

Maintenance

- Wash timber down regularly with detergent and water at low pressure with a soft brush, to remove built up dirt, dust and any other environmental pollution that may have adhered to the surface. Water blasting is not recommended.
- For more difficult to clean areas, a scrub down with a timber cleaner such as oxalic acid is recommended prior to low pressure cleaning with water. Leave to dry completely before application of Protector.
- A maintenance assessment of the timber should be made every summer (decking) or every two summers (cladding) and touch up coats applied as appropriate to maintain colour and water repellency. The re-coat period will vary according aspect of the timber to the weather and climatic conditions.
- For dark colours, a third coat is recommended after approximately 12-18 months weathering to give best long term colour durability.
- Expect tracking marks to appear on pigmented coatings applied to decking, in areas of heavy traffic.
- As a guide, a further coat should be applied approximately every 12-18 months for decking or every 3-5 years for cladding, this period may be less in areas under full exposure to heavy weathering.

Packaging

500ml sample bottles.

4L – 4 units per carton/40 cartons per pallet/160 units per pallet = approx 0.65 Metric Tonne.

10L – 24 units per row/48 units per pallet = approx 0.50 Metric Tonne.

Palletizing

Heat treatment:

All pallets should be heat treated according to ISPM15-certificate.

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