

## HEAVY DUTY EXTREME VARNISH

interior and exterior

### PRODUCT DESCRIPTION

The strongest of all 'one pack' varnishes that dries in minutes and cures in 16 hours to protect interior and exterior surfaces

New water-based crosslinked polyurethane with advanced resin technology brings the highest protection single pack ever developed. UV blocking and absorption reduce greying, aging and deterioration of surfaces. Biocides protect against mildew, mould and fungus.

wood • marine • worktops • doors • furniture • concrete paving • unglazed tiles • slate • brick

### SURFACE PREPARATION

Ensure the surface to be coated is clean and free from grease, wax or polish. White spirit or sugar soap should be used as cleaning agents. Sugar soap should be rinsed off well with clean water and allowed to dry. If water has been used on bare wood this would raise the grain. The surface then needs to be sanded and vacuumed before coating. Newly painted wood should first be sanded to provide a key. Extreme Heavy Duty Varnish should not be applied over uncured oil base paint as this may cause discoloration. Older painted wood, where the paint itself may fail, should be stripped using a hot air gun or a chemical paint stripper, sanded and cleaned prior to coating. When applied over an emulsion/latex paint, it is possible that Extreme Heavy Duty Varnish can draw certain stains through the paint which were not otherwise visible. In this case a stain sealer should be used.

### APPLICATION

Extreme Heavy Duty Varnish can be applied by brush, spray or roller. Apply 2 or 3 coats. On softwood, light sanding in between coats may be necessary, if there is any raising of the grain. Allow 2 hours in between coats and 24 hours after final coat before full use. Do not use in temperatures below 5 degrees C/40degrees F or in very high humidity. Lower temperatures will slow the final cure time.

On new softwood and porous surfaces dilute the first coat 10% with water. Lightly sand wood in between applications to remove any raising of the grain.

**Dead Flat finish** For increased durability and stain resistance first apply 2 coats of Heavy Duty Extreme Varnish Satin followed by 1 coat of Heavy Duty Extreme Varnish Dead Flat. This will result in a slightly brighter finish than using Heavy Duty Extreme Varnish Dead Flat only.

### Caution

#### Oak

The open grain texture of Oak will cause **film failure**.

Varnishes are prone to failure when applied to Oak externally.

It is **imperative** therefore that the grain is filled with coating before further coats are applied.

Oak is not as resistant to weathering as oily hardwoods and, therefore, needs better protection when used outdoors. The large open pores make the problem worse providing a route for water-ingress. Blue-stain mould spores are likely to be present on any piece of timber and will be activated by moisture. Another problem with Oak is the high tannin content, if not properly sealed water (rain) can wash the tannin out of the wood leaving a patchy colour and staining to the surrounding areas (bricks, patio, etc.).

Pre-conditioning to the correct moisture content is very important. If the Oak is outside the moisture content range of 12-20% there will be excessive movement as it comes to equilibrium. The wood can become split, and the coating film may also split exposing bare wood, providing a route for water-ingress and rapid deterioration of the coating.

If this occurs remedial action must be taken immediately to prevent the wood becoming weather-stained. Clean the surface and reapply sufficient coats of the same coating product to fill the cracks/splits.

**The coating integrity cannot be guaranteed on green oak.**

Further information may be obtained from:

Polyvine Limited, Vine House, Cheddar Business Park, Wedmore Road, Cheddar, BS27 3EB

Tel 01934 740305 • [www.polyvine.com](http://www.polyvine.com) • email [info@polyvine.co.uk](mailto:info@polyvine.co.uk)

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### **Caution**

Intense exposure to sunlight will cause gradual fading of the timber colour. A pretreatment of Polyvine Wood Colour is recommended in these areas to enhance the timber colour and prevent fading. Application to softwood, knots and resin pockets will bleed through the coating.

### **Maintenance**

Inspect yearly for signs of wear or damage.  
Clean surface thoroughly and wash of all cleaning solution.  
A maintenance coat should be applied every 1 / 3 years on exposed areas, 3 / 4 years on less exposed or sheltered areas.

### **New and weathered wood**

New wood can be contaminated during preparation, or in the machine shop. Weathered wood can already have contaminants on the surface.  
All contaminants and millwork must be removed from the surface by sanding, 80/120 grit for vertical, 60/80 grit for horizontal surfaces.  
Fungus, pollen or spores not removed and trapped below the clear varnish will discolour the surface of the timber when exposed to moisture. If contamination is suspected treat timber with a proprietary preservative treatment as recommended by the manufacturer.

### **Previously painted wood**

Completely remove old coating with 60/80 grit sandpaper.  
Ensure surface is dry clean and free from dust, follow New and weathered wood instructions.

### **Precoating**

Fill all joints, Cracks, and nail holes with a good quality Polyurethane or acrylic filler prior to coating.

### **COVERAGE**

coverage 10-20 sq m per litre, 100-200 sq ft per quart

**drying time** 30-60mins

**recoat time** 1-2 hrs

**cure time** 16 hours in ideal conditions. Allow 48 hours before heavy use eg. furniture dragging, and several days before covering with carpet.

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## CLEAN UP

Any equipment used can be cleaned using soap and water before the clear coat dries. Wipe any excess off surfaces with a damp cloth. Any dried deposits will need a paint stripper to remove them.

Resistances to:	Polyvine Heavy Duty Extreme Varnish (pure pu)	Brand Leader Varnish (pu/ac)	Acrylic Varnish	Spirit Based Varnish (pu)
Ethanol	5	4	0	4
Tea	5	4	3	4
Coffee	5	3	4	3
Detergent	5	4	1	4
Hot wet pan	5	3	0	4
Other Properties				
Non yellowing	5	4	5	2
Hardness	5	4	2	4
Clean up	5	5	5	0
Time to full cure (50% rh. 20 Degrees C)	16hrs	48 hrs	5 days	2 days

0 = poor. 5 = excellent

## FILM PROPERTIES

Dry Film: Satin, Dead flat

Drying Time: approx. 30 minutes @ 20degrees C / 70degrees F

Cure Time: approx. 16 hours @ 20degrees C / 70degrees F

Hardness: approx. 150 sec Konig hardness

BHMR: excellent @ 16hours

Non Yellowing

Highly Resistant to: Water, tea, coffee, alcohol, detergent, wet hot pans, etc.

## PACKAGING

1L, 4L. US Quart, US gal. Plastic containers.

## STORAGE

Store in unopened containers in a cool dry place away from direct sunlight.

## HEALTH SAFETY AND THE ENVIROMENT

Non-hazardous. Ensure good ventilation. Keep out of reach of children. Contact with eyes-wash immediately with warm water. Remove excess from tools and mixing vessels before washing in warm soapy water. Do not empty containers into drains or watercourses.

The information supplied herein is accurate to the best of our knowledge. Since conditions and methods are beyond our control, no warranty is expressed or implied. You are advised to assess the suitability of the product on a test area before application

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