

TECHNICAL DATA SHEET

EXTERIOR EXTREME VARNISH

DESCRIPTION

Polyvine Exterior Extreme Varnish is composed of a water-based dispersion of cross-linking polyurethane copolymer with surfactants, waxes, and rheology modifying agents.

Waterproof 'one-pack' varnish that dries in minutes and cures in 16 hours to protect exterior surfaces. New water-based crosslinked polyurethane with advanced resin technology brings high single pack protection. The latest UV filters and absorbers reduce greying, aging and deterioration of surfaces. Biocides protect against mildew, mould and fungus. This product is self-extinguishing.

Use where high water and UV resistance is required.

Exterior • marine • concrete paving • unglazed tiles • slate • brick • flagstones

Dries to a finish, which is capable of withstanding water, heavy wear and abrasion after 16 hours curing.

FOR USE ON

Exterior wooden walkways • decking • exterior wooden surfaces subject to heavy use • exterior wooden furniture • wooden deck • pontoon • marine surfaces

AVAILABLE FINISHES

Satin for depth and a soft sheen, dead flat for a completely shine free surface.

UNIQUE SELLING POINTS

Highly chemical resistant, cures in 16 hours, very fast drying and recoating, highly stain resistant, highly water resistant, highly heat resistant, industrial level of finish. Contains anti-slip for stairs and floors.

SURFACE PREPARATION

All surfaces must be clean and free from dust, dirt, oil/resins and contamination.

APPLICATION

Ensure the product is well mixed but do not shake (Inverting the container several times allows the particles to distribute evenly throughout the varnish) creating a uniform solution.

Ensure the surface to be coated is clean and free from grease, wax or polish. If water has been used on bare wood this would raise the grain. The surface then needs to be sanded and vacuumed before coating.

Use a Polyvine varnish synthetic brush, recommended, or by conventional spray or HVLP spray or Gloss Roller. Roller, take care, stippling may occur, do not apply pressure this will generate air bubbles in the varnish.

Thinly apply 2 to 3 coats with a Polyvine brush. On porous surfaces dilute the first coat with 10% water.

For a dead flat finish with high durability (water, stain, abrasion, resistance), apply three coats of satin followed by one of dead flat.

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As with all water-based coatings, do not apply at temperatures below 8°C (as recommended by British Standard BS 6150). Or above 30°C.

For a high level of protection and stain resistance apply 2 coats of satin, then 1 coat of dead flat.

CAUTION

Apply dead flat finish sparingly and brush out well, over application could result in misting. Always apply to a test area before starting work. Care must be taken when applying in high temperature or direct sunlight as this will affect drying time. Do not continuously submerge in water. Test for compatibility before application.

Spills should be promptly removed. Unattended spills may cause cosmetic staining and potentially damage the surface.

Appearance may vary according to the colour and type of substrate and the number of coats.

EXTERNAL BUILDING MATERIALS

Clean the surface.

To ensure that the Polyvine Exterior Extreme keys, the surface must firstly be cleansed of all moss, mould, lichen, carbon deposits, oil stains and airborne dirt. Thoroughly wash the paving using a pressure washer, ideally with an output pressure of 2500 to 3000 psi and a spray lance equipped with a "turbo-jet" nozzle or specialist rotary attachment designed for cleaning paved surfaces. Alternatively, the surface can be cleaned manually with Polyvine Mouldguard Fungicidal Cleaner. Allow to dry.

After cleaning (once dry) the paving should be thoroughly sprayed with Biocidal Wash Treatment. This is applied by low pressure sprayer (as for weed killer etc.) to the entire paving surface and is left to dry out (do not rinse). This is an extremely important phase in the process because it will greatly reduce the possibility of moss or lichens re-establishing. The pressure washing process leaves the paving looking clean but the moss root systems and mould/lichen spores are still present in hundreds of microscopic crevices and especially in the joints. Spray with Polyvine Mouldguard Fungicidal Cleaner to ensure that the paving is sanitised and inert.

Note: Some paving materials occasionally exhibit corrosive efflorescence (salting) and where this occurs it can cause coatings to de-laminate.

TIMBER

Where surfaces do not come into contact with abrasion use **Polyvine Exterior Varnish or Polyvine Wood oil**. Oily Hardwoods (Iroko) and Oak.

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

Varnishes are prone to failure when applied to Oak externally and Oily hardwoods like Iroko.

Polyvine advise the application of their Wood Oil.

The coating integrity cannot be guaranteed on green oak.

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

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 Polyvine Mouldguard Fungicidal Cleaner.

PRECOATING

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

COVERAGE

Coverage 15-20 sq. m per litre, 108-215 sq. ft per quart depending on the porosity of the substrate.

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NUMBER OF COATS

See Application section

Cure Time: 16 hours @ 20°C / 70°F

Drying Time: 60+ minutes

Recoat Time: 3 hours

PACKAGING

100ml, 1L, 2L, US Quart, US gal. plastic containers.

STORAGE

Protect from extremes of temperature during storage and application.

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

Shelf Life: Many years in tightly sealed container.

HEALTH SAFETY AND THE ENVIROMENT

Non-hazardous. Keep out of reach of children. Contact with eyes - wash immediately with warm water.

If swallowed, seek medical advice immediately and show the container or label.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

CLEAN UP EQUIPMENT

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 Polyvine Varnish and Paint Remover to remove them.

DISPOSAL

Look for special facilities locally. Do not empty into drains or watercourses.

The information provided is prepared to the best of our current knowledge and makes no claim to be complete. The User is responsible for establishing that the product and recommendations herein are fit for the designated purpose, wood type and present situation before use. A professional and thereby successful application of the product is beyond our control. Always make a preliminary test. The User is required to read and understand all information contained on package labels and safety data sheets before using this product.

MANUFACTURED IN THE UK BY

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For technical and recycling info visit our website **polyvine.com**

EU VOC limit 130g/L 2010 (cat A/e) contains 44g/L

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