

Perfection Pro Varnish

Varnishes

High Performance Polyurethane Varnish



PRODUCT DESCRIPTION

Perfection Pro Varnish provides the ultimate in varnish finish using brush and roller or spray application. It combines excellent chemical and abrasion resistance with superb gloss, giving a durable and outstanding result. Perfection Pro Varnish has been formulated to give it the longest possible life.

- * Easy to apply 2 pack
- * Two bases (brush/roller and spray) specifically formulated for optimized application methods
- * Longer service life than ordinary varnishes
- * Fully compatible with oily woods like teak and iroko after adequate degreasing and substrate preparation
- * Chemical cure gives resistance to fuels, oil and mild acids and alkalis

PRODUCT INFORMATION

Colour	YSC246 - Brush/Roller YSC252 - Spray
Finish	High Gloss
Specific Gravity	1.062
Volume Solids	49%
Mix Ratio	2:1 by volume (as supplied)
Converter/Curing Agent	YSC032
Typical Shelf Life	2 years Base & Converter
VOC (As Supplied)	481g/L (mixed, unthinned)
Unit Size	Base-US Gallon, Converter/Curing Agent-Half Gallon

DRYING/OVERCOATING INFORMATION

	Drying		
	15°C (59°F)	25°C (77°F)	35°C (95°F)
Hard Dry	36 hrs	24 hrs	12 hrs
Touch Dry	24 hrs	18 hrs	6 hrs
Pot Life	5 hrs	4 hrs	3 hrs

Note: Above drying times are indicative. Actual drying times will vary depending on wet film thickness, temperature, relative humidity, and level of thinning.

Overcoated By	Overcoating Substrate Temperature					
	15°C (59°F)		25°C (77°F)		35°C (95°F)	
	Min	Max	Min	Max	Min	Max
Perfection Pro Varnish	28 hrs	3 days	20 hrs	2 days	12 hrs	24 hrs

Note: If maximum overcoating interval is exceeded the coating must be sanded with 320-400 grade paper prior to application of Perfection Pro Varnish.

When spraying, Perfection Pro Varnish may be overcoated when touch dry, usually between 30 - 60 minutes depending on application conditions. The maximum overcoating time by spray application is 24 hours.

APPLICATION AND USE

Preparation

BARE WOOD:

Aged Timber: If timber is badly weathered, hard sand in-line with grain with 60 or 80 grit sandpaper, ensuring all greyed, UV damaged timber fibres are completely removed. Ensure deep grain pits are thoroughly cleaned. A stiff wire brush may assist here. The surface of the timber should be mechanically removed until colouration is even and the original timber tone has been exposed.

New Timber: Sand smooth with 120 grade paper, followed by 240 and finally 320 grade paper. Remove sanding dust by vacuuming surface, compressed air and solvent wiping. If wiping with solvent allow to dry completely.

OILY WOODS e.g. Teak: Must be adequately degreased and prepared prior to the application of Perfection Pro Varnish. Thinner No. 9 and 910 are suitable for degreasing purpose. Ensure the surface is completely dry before applying the first coat. Apply first coat within one-hour of degreasing.

Priming Bare Timber: Clear Wood Sealer may be used as a primer for bare timber (Recommended in deep grain timber), to achieve grain fill. See Technical Datasheet for Clear Wood Sealer application guidance.

PREVIOUSLY VARNISHED SURFACES (Two-pack only):

In Good Condition: Perfection Pro Varnish can be applied over dark Perfection Pro topcoat colours. Do not apply

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Perfection Pro Varnish over white, light or pastel colours. Wash down with Super Cleaner, rinse with fresh water and allow to dry. Abrade with 320-400 grade (grit) paper. If underlying base coat has been broken through (sanded through to underlying primer), additional application of base colour will be required.

In Poor Condition: Remove all previous coatings and prime the substrate.

Method

BARE WOOD:

With Priming: Apply a minimum of 4 coats of Clear Wood Sealer in accordance with TDS. Additional coats may be applied as required for grain fill. Gently sand Clear Wood Sealer with P320 – P400 grade sand paper, taking care not to break through to bare wood. Apply a minimum of 3 coats of Perfection Pro Varnish by brush, roller or spray. More coats may be applied as desired.

No Priming: Thin first coat of Perfection Pro Varnish 10% - 20% with YTA100 and apply direct to bare timber. On deeper grained timber, always apply first coat by brush or roller to work varnish into timber grain. Apply a further minimum of 4 coats of Perfection Pro Varnish with brush, roller or spray. More coats may be added as required.

Hints

PREVIOUSLY PAINTED SURFACES: Apply 2-3 coats of Perfection Pro Varnish.

Mixing: Stir contents of each part prior to mixing. Add Curing Agent to the Base, stir and leave for 10 minutes to allow bubbles to disperse. Apply only to timber / ambient temperatures that are cooling / stable. Application on warming timber or ambient temperatures will cause timber to out-gas, leaving micro-bubbles in the varnish layer.

Thinner:

Brush/Roller: YTA100

Spray: 10-25°C: International Thinner YTA910

25-35°C: Blend of International Thinner YTA910/YTA100 with up to 33% YTA100

Thinning:

Brush/Roller: Thin no more than 20%.

Spray: Thinner addition to achieve 14 - 15 seconds viscosity (DIN4 or equivalent varies). For standard air atomized application this can be attained by adding up to 33% thinner.

Roller: Use foam rollers.

Cleaner: YTA910

Ventilation and Humidity Control: Apply in dry well ventilated conditions. Avoid excessively humid conditions, over 80% relative humidity.

Other: Best applied at 15°C. If using as a deck paint, mix in non-slip additive. Full hardness is achieved after 14 days at 15°C/59°F.

There is no need to sand between all coats, but sanding between the last two coats with 320-400 grit paper will provide a smoother finish.

Some Important Points

Do not use unless mixed thoroughly with the curing agent at specified ratio. Avoid painting in direct sunlight.

Do not apply paint materials to surfaces less than 3°C (5°F) above dew point, or to surfaces warmer than 41°C (105°F).

Product temperature should be minimum 15°C/59°F and maximum 35°C/95°F.

Ambient temperature should be minimum 5°C/41°F and maximum 30°C/86°F.

Avoid applying late in the evening as condensation can cause a loss of gloss during overnight cure. Allow to dry in a well ventilated environment. Perfection Pro Varnish is not compatible with Matting Additives.

Compatibility/Substrates

WOOD: Apply over bare wood or Clear Wood Sealer. Ensure all sanding residues are removed before application of Perfection Pro Varnish. Will crack on carvel and clinker/lapstrake hulls.

GENERAL: Do not use Perfection Pro Varnish on flexible constructions. Perfection Pro Varnish should not be used over any one-pack products. Not suitable for permanently immersed surfaces.

Number of Coats

BARE WOOD:

Brush/Roller: Apply 4 coats (first coat thinned up to 20%). We strongly recommend to apply Clear Wood Sealer as primer before applying Perfection Pro Varnish.

Spray: 4 coats

Clear Wood Sealer:

Brush/Roller: 4 coats

Spray: 4 coats

Coverage

Mixed Paint/No Thinner:

Theoretical coverage calculation is calculated for mixed base and converter, without reducer and is based on a theoretical transfer efficiency of 100%.

By Brush/Roller

(Theoretical) - 13.33m²/L per coat

(Practical) – 12m²/L per coat

By Spray:

(Theoretical) - 13.33m²/L per coat

(Practical) – 8m²/L per coat

Recommended DFT per coat

37 microns

Recommended WFT per coat

75 microns

Application Methods

Brush, Roller, Air Atomized

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Please ensure the correct base is used depending on application method. YSC246 is optimized for brush & roller and YSC252 for spray application.

TRANSPORTATION, STORAGE AND SAFETY INFORMATION

Storage

GENERAL:

Exposure to air and extremes of temperature should be avoided. For the full shelf life of Perfection Pro Varnish to be realised ensure that between use the container is firmly closed and the temperature is between 5°C/41°F and 35°C/95°F. Keep out of direct sunlight.

TRANSPORTATION:

The product should be kept in securely closed containers during transport and storage.

Safety

GENERAL:

Contains isocyanates which may be harmful to the respiratory tract. Read the label safety section for Health and Safety Information, also available from our Technical Help Line.

DISPOSAL:

Do not discard tins or pour paint into water courses, use the facilities provided. It is best to allow paints to harden before disposal.

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IMPORTANT NOTES

The information given in this sheet is not intended to be exhaustive. Any person using the product without first making further written enquiries as to the suitability of the product for the intended purpose does so at their own risk and we can accept no responsibility for the performance of the product or for any loss or damage (other than death or personal injury resulting from negligence) arising out of such use. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

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