

## LIQUID NAILS VBS RAPID

### Description

A highly cross-linked, pigmented, two-pack epoxy water based vapour barrier system.

The mixed product is mid green in colour.

### Product Information

Packaging	Size
2 x Aluminium foil pouches	5lt Kit

### Uses

For sealing concrete floor slabs to reduce the amount of water vapour emanating from the concrete.

Suitable for use on concrete slabs prior to using Selleys Liquid Nails flooring adhesives to lay timber flooring.

Water vapour from a concrete slab can affect wooden flooring overlays. Application of a suitable moisture vapour barrier such as WB VBS can reduce the chance of problems developing with wooden floors at a later stage.

### Features

- Normally a one-coat system
- Colour coded components to aid proper mixing
- Controlled opacity: - The mid green pigmented colour of the mixed product helps the applicator to gauge a consistent application rate by eye.
- Rapid cure
- Very low water vapour transmission rate
- Low odour and water clean up
- Excellent adhesion and application properties
- Optimal properties for subsequent bonding with Selleys Liquid Nails flooring adhesives

\* If using a competitor adhesive an adhesion check is recommended.

### Technical Details

Property	Typical Result
<b>Technology</b>	Two part water based epoxy
<b>Colour</b>	Resin: White Hardener: Green When Mixed: Green
<b>Density</b>	1.2
<b>Mix Ratio</b>	1:1 by weight or volume
<b>Coverage</b>	40m <sup>2</sup> per coat for engineered flooring 20m <sup>2</sup> per coat for solid timber flooring
<b>Application Temperature</b>	10 – 35°C
<b>Working Time</b>	<40 - 45 minutes at 25°C
<b>Cure Time</b>	Normally floors can be walked on, re-coated or adhered to in 2-4 hours
<b>Re-coat Time</b>	After curing and before 72 hours
<b>Water Vapour Barrier permeance</b>	Will achieve a MVT of less than 15g/m <sup>2</sup> /24 hours
<b>VOC Content</b> ASTM D3960-05	151 grams per Litre
Indicative data only, not intended for preparation of specifications	

### Surface Preparation

All surfaces must be clean, dry and sound, free of voids, loose materials and contaminants (curing compounds, oil, grease, waxes, sealers, previous coatings or adhesives, etc).

Complete removal of any contamination must be carried out where it is suspected or evident.

Surface preparation may be achieved by diamond grinding, shot blasting, sand blasting, captive abrasive blast cleaning (Blastrac) or other suitable method. (Acid etching is not recommended as the concrete has to be neutralised and dried afterwards.)

Best preparation is to diamond grind the surface of the slab, as it enables the removal of high spots as well as laitance.

Surface shall be structurally sound and level. [Concrete slabs shall be in accordance with AS2870-1996 Residential Footings and Slabs Code.]

Concrete surfaces shall have a finish equivalent to that obtained when using a steel trowel.

WB VBS can be applied if the concrete surface is dry and the slab has stabilised. To be stable, new concrete should be cured for at least 28 days.

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Concrete should be flat and level (Refer ASTM F710-98 for determining).

### SPECIAL NOTES ON DAMPNES

If dampness is suspected in a concrete slab, check by securely taping a 1m x 1m square of heavy duty plastic onto the slab, and leaving it for 24 hours. Any visible dampness or discolouration of the slab under the patch on removal of the plastic is a warning sign.

If the slab is below grade, and there is a possibility of the water table being high enough to pressurise the concrete, perimeter drains would need to be installed.

If the slab is still green and high in water-of-placement, then allow the excess water to migrate out by providing good ventilation or by using a dehumidifier until the surface is dry.

Slabs known to be of, or prone to, high moisture levels may require 2 applications of WB VBS See recommendation to confirm barrier effectiveness below.

### Directions for Use

Selleys VBS Rapid cures rapidly. Ensure that all your preparation is complete and the application area is clear and marked out before commencing mixing.

### MIXING THE WHOLE KIT.

Add ALL the Green hardener component to the White resin component in a 10L pail

Once blended the mix is a uniform green colour.

Use a Jiffy mixing blade with a slow speed drill, or the stirrer supplied.

Use the stirrer to scrape around the sides and the bottom of the resin can during mixing to make sure all the resin is properly incorporated.

Streaks of green or white in the mix will demonstrate insufficient mixing.

Mix for approximately two minutes.

Once thoroughly mixed and streak free, the product can be applied by brush, a 5-6 mm mohair roller, an applicator to minimise splatter, or a trowel.

Detail ("Cut-in") around edges, corners and fine cracks with a brush before completing the rollout phase.

Use mixed product within 40 mins. If it begins to thicken prior to being applied, it has exceeded its working time and shouldn't be used.

The product will darken as the water evaporates and the colour will give a visual indication of varying thickness – shallow areas will tend to give a "grin-through" effect.

Surface should be even, glossy and streak free.

If the mixed product begins to thicken prior to being applied, it has exceeded its working time and shouldn't be used.

To be effective as a vapour barrier, there must be a continuous film left on the surface. If this is not achieved in one coat then a second coat is required. If coating soaks away, gives dull patches, or if pinholes are visible, a second coat should be applied once the first coat has cured.

When the product is touch dry and able to be walked on, laying of flooring can typically commence on the same day. Summer – minimum 2hrs, Winter – minimum 4 hrs (ambient temperature).

Ensure that good ventilation is present to accelerate water loss. Using available heat sources will accelerate the cure of the product enabling overlays to be installed earlier.

### MIXING LESS THAN A WHOLE KIT

• Calculate the area to be coated and use the blend sheet below to calculate the quantity of product to mix.

### Coverage

Each pack will cover approximately 40m<sup>2</sup> for engineered flooring or 20m<sup>2</sup> for solid timber floors.

### Clean Up

Clean up with water before product cures. Use damp rags to remove any splatter from walls etc.

### Storage

Store in a cool dry place out of direct sunlight. Keep containers sealed when not in use.

### Limitations

In unusual circumstances, two coats may be required on very porous concrete.

### Warnings, First Aid and Shipping Information

This information can be located on the product SDS found through our website – [www.selleys.com](http://www.selleys.com)

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Blend Sheet for Mixing Less Than a Whole Kit

Area M <sup>2</sup>	Solid Timber Flooring	Engineered Flooring
20 m <sup>2</sup>	5L (6Kg)	2.5L (3Kg)
18 m <sup>2</sup>	4.5L (5.4Kg)	2.25L (2.7Kg)
16 m <sup>2</sup>	4L (4.8Kg)	2L (2.4Kg)
14 m <sup>2</sup>	3.5L (4.2Kg)	1.75L (2.1Kg)
12 m <sup>2</sup>	3L (3.6Kg)	1.5L (1.8Kg)
10 m <sup>2</sup>	2.5L (3Kg)	1.25L (1.5Kg)
8 m <sup>2</sup>	2L (2.4Kg)	1L (1.2Kg)
6 m <sup>2</sup>	1.5L (1.8Kg)	0.75L (0.9Kg)
4 m <sup>2</sup>	1L (2.4Kg)	0.5L (0.6Kg)

Note: Values are total volume or weight. Mix ratio is 1:1 by volume or weight.