

## Liquid Nails VBS Vapour Barrier

Epoxy moisture vapour barrier

### Description

*Selleys Liquid Nails VBS* is a highly cross-linked, two-pack epoxy moisture vapour barrier system. It is available in a 3.6L kit, which is sufficient for 20m<sup>2</sup>.

### 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 flooring adhesives to lay timber overlay.

### Features/Advantages

- Normally a one-coat system.
- Colour coded components to aid proper mixing
- Controlled opacity: - The dark 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.
- Excellent adhesion and application properties
- Optimal properties for subsequent bonding with Selleys flooring adhesive

### Instructions for use/Application Instructions

The following should only be used as a guide and the installer should apply all Australian Standards, BCA/NZBC requirements, and best practices.

#### Preparation

- *Selleys Liquid Nails VBS* cures rapidly. Ensure that all your preparation is complete and the application area is clear and marked out before commencing mixing.
- Product is supplied ready to mix and use.
- For application use a 5-6 mm mohair roller (or an applicator to minimise splatter) and cut in with a paintbrush.
- 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, and 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.]
- For best results and optimum coverage concrete surfaces should have a finish equivalent to that obtained when using a steel trowel.
- *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 or until the moisture content of the slab is less than 5.5%.

Mixing for 20m<sup>2</sup>

- Keep VBS kits cool before mixing.
- Mark out approximately 20m<sup>2</sup> on floor.
- Pre-mix (or thoroughly shake) the hardener can before decanting.
- Add the entire Blue hardener component to the Yellow resin component in the 4-litre can.
- Once blended the mix is a uniform green colour.
- Streaks of yellow or blue in the mix will demonstrate insufficient mixing.
- Continue mixing for approximately two minutes.
- Once thoroughly mixed and streak free, immediately pour out the mixed product onto the floor over the area marked in such a way as to allow an easy consistent roll-out to give an even build.

Mixing for less than 20m<sup>2</sup>

- One quarter mix for 5m<sup>2</sup> areas or for cutting in.
- The kit supplied has provision to easily mix one quarter of kit quantities by means of the separate mixing pail and stick.
- Mark-out area on concrete floor where VBS coating is to be applied.
- Thoroughly mix each part (Resin & Hardener) separately in its own can.
- Place mixing stick in the one litre empty pail provided, pour resin into the mix pail until it reaches the top of the yellow mark. Then add hardener to the top of the blue mark.
- Stir thoroughly until a uniform green colour with no streaks is achieved and apply.

Mixing less than a whole kit can also be made on a volume or weight basis. Always ensure that the resin and hardener components are thoroughly mixed in their own containers before decanting. Accurately measure out 4 volumes of resin and add 1 volume of hardener and mix as described above.

**Refer to the Installation Guide for more detailed information.**

**Technical Data/Properties**

Contact Selleys before using this data for the setting of specifications.

| Property             | Typical Result   |
|----------------------|--|
| Colour               | Green when mixed<br>Resin is yellow<br>Hardener is Blue  |
| Technology           | 100% Epoxy   |
| Mix Ratio            | 4 parts resin to 1 part hardener by volume<br>(or 4.42 parts to 1 by weight)   |
| Coverage             | 6m <sup>2</sup> /Litre   |
| Water Vapour Barrier | 167 micron coating will normally achieve a MVT of less than 15g/m <sup>2</sup> /24 hours.  |
| Shelf Life           | 12 months  |
| Working Time         | 20-30 minutes when poured out onto slab  |
| Cure Time            | Normally floors can be walked on, re-coated or adhered to in 8-12 hours @25 <sup>0</sup> C   |
| Re-coat time         | After curing and before 24 hours. If re-coating is required after 24 hours the floor will need to be lightly sanded and wiped over with MEK solvent to ensure adhesion of the next coat. |
| VOC                  | 68 g/L   |

## Important Notes/Limitations

- Very fast cure - for maximum working time tip product onto concrete slab immediately after mixing.
- Do not leave the mix in the can while brushing and rolling out or else application time will be shortened. By decanting the mix out onto the floor it is kept cool and allows a longer working time.
- Two coats may be required on very porous concrete or if there is high moisture content in the slab.
- To be effective as a vapour barrier coated surface should be even, glossy and streak free. If coating soaks away, gives dull patches, or if pinholes are visible, a second coat should be applied once the first coat has cured.
- 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 VBS.
- After coating floors with VBS they should still be confirmed as having a moisture transmission rate of less than 15g/m<sup>2</sup>/24 hours before applying flooring overlay. It is recommended that this testing be done by the anhydrous calcium chloride method (ASTM F1869-98).
- If vapour transmission of less than 15g/m<sup>2</sup>/24 hours is not achieved a second coat of VBS is recommended.

## Storage

Store unopened containers below 30°C in a cool dry place away from direct sunlight. Unopened containers can be stored for 12 months from the date of manufacture.

## Safety

Classified as HAZARDOUS - contains Amine and Epoxy Resin  
Wear gloves and safety glasses when using. Use in a ventilated area.  
Classified as Dangerous Goods – Flammable and Corrosive  
Refer to Safety Data Sheet for more detailed information.

## Clean up

Discard brushes and rollers after use.  
Clean up with acetone, MEK, epoxy or lacquer thinners.

## Disclaimer

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ABN 67 000 049 427

Selleys – a division of DuluxGroup Australia Pty Ltd  
1 Gow Street, Padstow, NSW 2211  
1300 555 205 (Australia)  
0800 735 539 (New Zealand)