



# Technical Data Sheet

## Ultraseal 4L Kit

### One Coat Vapour Barrier

#### DESCRIPTION

Two part solvent free epoxy composition compatible with a wide range of coverings. Designed as a one coat primer and vapour barrier/retarder to prevent moisture migration through a concrete slab to levels that will not cause swelling or cupping of Timber flooring.

For use with the Ultraset flooring adhesive range. Grey coloured epoxy applied with brush or roller.



#### FEATURES

- Accepts a wide range of coverings
- Excellent bond to a range of substrates
- Easy 1:1 mixing ratio (by volume)
- Easy to mix by hand with spatula
- Excellent high build achieved in one coat

#### COMPATIBLE SUBSTRATES

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Concrete</li> <li>• fibre cement</li> <li>• stone</li> <li>• masonry</li> </ul> | <ul style="list-style-type: none"> <li>• structural plywood,</li> <li>• brick</li> <li>• AAC</li> </ul> |
|--|---|

#### COMPATIBLE COVERINGS

Designed to be used with Bostik **Ultraset** flooring adhesives. **Ultraset HP, Ultraset SF, Ultraset S, Bostik Timberset, and Bostik 525**

#### SURFACE PREPARATION

Check that the surface is structurally sound, clean and dry.

Remove all surface contaminants as well as loose or friable material. In particular make sure no laitance, grease, oil, or dirt is present. Check that all curing compounds, bonding agents, coatings and other contaminants are either not present or have been completely removed. In some cases physical removal methods such as shot blasting or grinding may be needed.

Repair voids and defect as required. In most cases the Bostik Patchfix range can be considered. Contact Bostik for specific advice if there is any uncertainty.

As a preventative measure, it is recommended that all ground floor slabs and all new or green slabs (less than four months old) be coated with **Ultraseal Vapour Barrier** as moisture levels within the slab can vary over time..

Always carry out moisture tests to determine suitability.

For ground floor slabs only one coat of Ultraseal Vapour Barrier is normally required. However a second coat will be needed if the concrete is very porous, or the coating becomes patchy, uneven or contains pinholes.

Ensure that a wet film thickness of  $> 300 \mu\text{m}$  is achieved.

Ultraseal Vapour Barrier can be applied to a new or green concrete when the moisture content of the slab is less than 5.5% (moisture meter) and the surface stable and dry to touch. The time to achieve this is normally at least 28 days.

Concrete subfloors are considered to be dry enough for timber flooring when the Water Vapour Transmission Rate (WVTR) does not exceed  $15\text{g/m}^2/24 \text{ hours}$  (calcium chloride method)

## MIXING

**This is a two part system and Part A must only be used with Part B in a 1:1 ratio.**

**Mixing can be done with a wooden or metal spatula or a mixed with a hand drill and high shear paddle.**

1. Open the Part A pail and briefly mix the contents.
2. Open the Part B Pail and mix briefly
3. Combine Part B into Part A with continuous mixing
4. Mix until a uniform colour and consistency is achieved.

Mixing Tips:

- Avoid entrapping air while mixing. This can result in pin holes in the applied coat
- Scrape the sides and bottom of the container during mixing to ensure parts are well combined

## APPLICATION INSTRUCTIONS

When applied as a vapour retarder, only one coat is required

- Apply with a brush, along perimeter edges, and a short nap roller for main area
- Ensure a minimum  $300 \mu\text{m}$  (0.3mm) minimum wet film thickness achieved for one coat (check regularly with a wet film thickness gauge)
- Ensure the material has been worked into the substrate from several directions to help minimise voids in the film and check that it is applied  $> 300 \mu\text{m}$  thick
- Additional coats may be required if the substrate is very porous or if pin-holes or other defects in the film are visible.

Do not use product that become stringy, or has hardened in the mixing pail.

## CLEAN UP

Remove as soon as possible using warm water and detergent. If allowed to harden it must be removed mechanically.

## WORKING AND CURING TIMES

<b>Pot Life:</b>	70 – 90 minutes
<b>Re-coat time :</b>	4 hrs (minimum)
<b>Cure time before covering:</b>	24 hrs (minimum)
<b>Full cure:</b>	5 – 7 days

All times are @  $25^\circ\text{C}$  and 50% Relative Humidity (300g cup).

Curing rates will be affected by temperature and humidity on site.

## COVERAGE

Coating thickness	1L	4L
$300 \mu\text{m}$	$3 - 4 \text{ m}^2$	$12 - 16 \text{ m}^2$

The above coverage is approximate. More product may be required when surface is uneven or has a high porosity. Always allow 10 – 15% wastage.

### IMPORTANT NOTES

- This is a two part system. Part A must be used with Part B in equal volume.
- Read the Material Safety Datasheet and Technical Datasheet before using.
- Use full kits whenever possible. Otherwise measure parts carefully to ensure correct ratio is used.
- Ensure the parts are well mixed and in the correct ratio or performance will be affected.
- Always ensure the correct thickness and the appropriate number of coats are applied (check coating depth with a wet film gauge)
- This product will lose 50% of its volume when cured so the dry film thickness will be half that of the wet film thickness.
- Seal all metal and steel surfaces before application to avoid corrosion.
- This product is not trafficable. Protect from damage until covered.
- Only use in ambient conditions between 5 – 35°C and <85% RH.
- Enclosed areas may require ventilation to facilitate curing.
- It is recommended that the treated surface be covered within 7 days. If longer apply and cure an additional coat before covering.
- This is a vapour barrier /retarder and not a flexible waterproof membrane. Contact Bostik for advice regarding the most suitable membrane if one is required.
- This product may yellow when exposed to UV light.
- Do not apply if rain is immanent and protect from water for at least 24 hours.
- Contact Bostik before work commences if there is any doubt regarding product suitability, substrate preparation or product use.

### BOSTIK CO-OPERATIVE TEST PROGRAM (P.A.T.S)

Bostik offer a service in which a program has been established to eliminate potential field problems by pre-testing Bostik adhesives and coatings with samples of building materials to which the products will be applied. This service is available on large projects where pre-application testing will aid in determining the proper surface preparation method to achieve optimum adhesion. Consult a Bostik representative for further information.

### SHELF LIFE AND STORAGE

Product will remain useable for 12 Months when stored unmixed, off the ground in a cool, dry and weatherproof environment. Store between 5 - 35°C.

### SAFETY PRECAUTIONS

**SEE THE MATERIAL SAFETY DATA SHEET FOR ADDITIONAL INFORMATION.**

**EMERGENCY INFORMATION: 1800 033 111 (ALL HOURS)**

MSDS can be [downloaded from www.bostik.com.au](http://www.bostik.com.au)

VOC – 0 g/Lt

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### PACKAGING

Bostik Ultraseal is available 4 litre kits.



Scan for MSDS



### PRODUCT DETAILS

ITEM NO	ITEM NAME	COLOUR	SIZE
378860	ULTRASEAL 4l Kit	Grey	4L

The information in this Technical Data Sheet is intended for the assistance of purchasers and is of a general nature. It reflects the extent of our knowledge and experience of our products and is based on tests which we believe to be reliable. However, no guarantee of accuracy can be given due to the wide range of surfaces, environmental and field conditions and variations encountered in raw materials, manufacturing equipment and methods at the place where the work is performed. Some of these will be beyond our knowledge or control. We recommend purchasers carry out their own tests to determine the suitability of the product for their particular purposes. Bostik Australia Pty Ltd limits its liability to replacement of the products or refund of the purchase price, but this limitation does not affect consumers' rights which cannot by law be excluded.

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