



# ULTRASEAL

## WATERPROOFING

11 December 2017

### YOUR SMART ADVANTAGES

- 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

### DESCRIPTION

Bostik Ultraseal is a two part solvent free water based epoxy primer. It is compatible with wide range of coverings. It is 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

### USES

- Concrete
- fibre cement
- stone
- masonry
- structural plywood,
- brick
- AAC

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

### PRODUCT CHARACTERISTICS

<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

### 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 µm 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.

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## SURFACE PREPARATION Cont.

Concrete subfloors are considered to be dry enough for timber flooring when the Water Vapour Transmission Rate (WVTR) does not exceed 15g/m<sup>2</sup>/ 24 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.

- Open the Part A pail and briefly mix the contents
- Open the Part B Pail and mix briefly
- Combine Part B into Part A with continuous mixing
- 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

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

- Apply with a brush, along perimeter edges, and a short nap roller for main area
- Ensure a minimum 300 µm (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 µm 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.

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

## COVERAGE

Coating thickness	1L	4L
300 µm	3 – 4 m <sup>2</sup>	12 – 16 m <sup>2</sup>

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

## CLEANING

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

## STORAGE AND SHELF LIFE

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.

## 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

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**For emergency information contact the Poisons Information Centre, phone 131 126 or the Emergency Response Service, phone 1800 033 111.**



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