



UL 100

FLOOR PREPARATION

13 June 2017

DESCRIPTION

Bostik UL 100 is a superior tile & carpet underlay; rapid hardening self-levelling, single component cementitious underlay formulated to achieve maximum flow without any shrinkage or cracking. Results in a smooth level surface with ease of application.

YOUR SMART ADVANTAGES

- Accepts foot traffic in 2 – 4 hours
- Single component product, just add water
- Fast application, single operation
- Carpet or tile may be applied after 16 hours
- Can be applied directly onto prepared concrete surfaces.
- Pumpable

USES

- Superior underlayment for carpet and ceramic tiles (may be used under parquet, timber & vinyl after extended curing)
- Fast repairs of uneven concrete floors
- Residential, commercial and medium industrial application.
- New construction and refurbishment
- Internal

PRODUCT CHARACTERISTICS

Age	Compressive Strength
5 hours	5 – 7 MPa
1 day	13 – 15 MPa
3 days	15 – 18 MPa
28 days	30 – 35 MPa

Age	Tensile Adhesion Strength
1 day	≥ 2 MPa

28 days	≥ 4 MPa
Initial Set	1.5 – 2 hours
Final Set	2 – 3 hours
Reflow time	10 – 15 minutes
Ready for foot traffic	2 – 4 hours
Ready for floor coverings	16 – 18 hours

Working Time

Temperature	Times (minutes)
10°C	50 – 60 minutes
20°	30 – 40 minutes
30°	20 – 30 minutes

APPLICATION THICKNESS

Minimum	Feather edge
Maximum	25 mm

APPLICATION TEMPERATURE

Minimum	5°C
Maximum	30°C

Fresh Wet Density	2.1 Kg/m ³ approx. (tested in accordance to AS1012.5)
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Water Requirement per 20kg Bag	4.5 – 4.8 Litres
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VOC	0 g/Lt
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MIXING

Bostik UL-100 requires between 4.5 - 4.8 litres of potable water per 20 kg bag and is best mixed with a forced action, high shear stirrer, powered by a heavy duty electric mixing drill at approx. 600 r.p.m.

- Add pre-measured water to a clean mixing bucket
- Gradually add Bostik UL-100 into the water whilst continuously mixing the contents of the bucket. When the entire contents of the bag have been added to the water, mix for a further 2-3 minutes to produce a smooth homogenous and fluid consistency.

CAUTION: DO NOT MIX BY HAND. DO NOT ADD EXCESS WATER.

Discard any hardened or stiffened compound that has formed in the mixing bucket. Further addition of water will NOT reconstitute a useable mixture

APPLICATION

Application thickness feather edge to 25mm

Substrate and Surface Preparation

- Ensure the concrete substrate is clean and free from oil, grease, sealers, curing compounds, paints, polymer coatings, dust or other foreign (bond breaking) matter.
- Excess bitumen, adhesive or laitance should be removed by light scabbling or mechanical captive shot blasting or grinding, followed by vacuuming to remove debris and dust.
- Large cracks or holes may be filled using Bostik UL Rapidset in accordance with the Technical Data Sheet.

Priming

Prior to carrying out the application the substrate must be primed with:

- Porous Substrate: Must be primed with Bostik UL-Primer Concentrate
- Non Porous: Must be primed with Bostik PrimeGrip Non-Porous.
- For concrete substrates that contain greater than 5.5% moisture content or are subject to greater than 70% relative humidity, rising damp or moisture, it is recommended that Bostik Moisture Seal is applied as vapour barrier. Refer to the Moisture Seal Technical Data Sheet. Floors treated with Bostik Moisture Seal should be treated as a non-porous surface and primed with Bostik PrimeGrip Non-Porous.

Porous Floors

Depending on the porosity of the substrate, UL-Primer Concentrate can be used neat or can be diluted 2:1 ratio (2 parts of water to 1 part concentrate).

- Apply Bostik UL-Primer Concentrate to the prepared substrate using a brush, broom or roller in accordance with the relevant Technical Data Sheet
- Allow primer to reach a tacky consistency. Approximate drying times for the tackiness is 40-60 minutes at 50% RH and 25°C

Extremely porous substrates such as weather damaged slabs, aerated lightweight concrete etc, may require a second coat of primer to avoid pinholes or bubbles in the levelling compound. If a second coat is required:

- Allow the first coat to dry prior to application of second coat
- Apply second coat of primer ensuring any ponded primer is brushed out to allow for even drying. Ensure tackiness is reached prior to application of UL-100

Non-Porous Floors

Bostik PrimeGrip Non-Porous is supplied in a 7kg oval shape pail. It provides high strength film over impervious surfaces that will allow bonding of cementitious products such as levelling compounds, tiling, render, etc.

- Apply Bostik PrimeGrip Non-Porous to the prepared substrate using a brush, broom or roller in accordance with the Technical Data Sheet
- Allow the primer to dry. Approximate drying time is 1-2 hours at 50% RH and 25°C

Placing

Primed areas should receive the Bostik UL-100 as soon as possible to avoid dust and surface contamination effecting adhesion of the Bostik UL-100 to the Primer.

- Pour the mixed material on the primed substrate
- Depending on desired thickness, either allow material to seek its own level or spread the material with a steel trowel, spreader or squeegee. Keep the trowel slightly inclined to obtain desired thickness
- Pour the next mix of material. To ensure uniform consistency and flow application, it is advised that subsequent mixes are ready to enable continuous pouring

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- For very large areas Bostik UL-100 can also be applied using an automatic pump. (Consult Bostik for further information).

Curing

Protect the finished area against damage during curing.

To avoid too rapid drying protect from direct sunlight or drying winds during actual application, and while curing for up to 12 hours.

Additives

For Heavy traffic, Industrial & commercial application, or for placing over flexible substrates, Bostik recommends the addition of Megalastic. (Consult Bostik for further information)

COVERAGE

A 20kg bag of Bostik UL-100 mixed with 4.8 litres of potable water will yield approximately 12 litres.

To determine the number of bags needed per m², use the formula:

No of UL-100 bags = (Floor Area (in m²) x Application Thickness (in mm)) / Mix Volume (in litres)

Note: The values are estimate only and do not include wastage.

CLEANING

Bostik UL-100 should be removed from tools and equipment with clean water immediately after use.

STORAGE AND SHELF LIFE

Bostik UL-100 has a shelf life of 12 months in unopened bags. Must be stored in a cool dry elevated place and protected from humidity.

IMPORTANT NOTES

- Bostik UL-100 must not be used in areas subject to occasional or permanent wetting or where back water pressure is likely.
- Bostik UL-100 is not designed as a wearing coarse, scratch coat or as a water-proofing agent, and should only be used as an underlayment
- If substrate on to which Bostik UL-100 is applied moves or cracks, reflective cracking will occur in the Bostik UL-100
- For large and thick sections it is advised to check the moisture content of Bostik UL-100 prior to application of floor coverings

- Check concrete substrates for moisture content prior to application of Bostik UL-100. For new concrete surfaces, it is recommended must be at least 21 days old prior to application of Bostik UL-100
- Do not mix by hand
- Do not add excess water.
- If UL-100 is over-watered, do not place it onto the substrate. It must be discarded.
- In all cases, test areas must be performed to ensure suitability of the product for the intended use.

ITEMS

Sap Code	Product	Size	APN Number
30840423	UL 100	20kg	9310492258744

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RECAUTIONS IN USE

Complete details on each of the products mentioned are available on the product Safety Data Sheets. To ensure no harm is caused to persons using Bostik products, it is recommended that all concerned read the appropriate Safety Data Sheets. Visit www.bostik.com/au for copies.

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



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