



ULTRA LEVEL C500

RAPID DRYING SELF-LEVELLING

01 Sep 2021

YOUR SMART ADVANTAGES

- Accepts foot traffic in 2 - 3 hours
- Single component, just add water
- Very fast application, single operation
- Dimensionally stable
- Rapid curing
- Receives vinyl & timber after 16 hours, carpet & tile after 6 - 8 hours
- Can be applied directly onto prepared concrete surfaces

DESCRIPTION

Bostik ULTRA LEVEL C500 is a rapid hardening, polymer modified cementitious underlay formulated for maximum flow without shrinkage or cracking. Application thickness featheredge to 25mm

USES

- Superior underlay for vinyl & timber floor coverings (may be used under carpet & tile if quick covering time is required)
- Reinstatement of new or existing concrete floors subject to foot traffic, industrial equipment, and fork lift traffic or trolleys.
- Residential, commercial and industrial applications,
- Heavy industrial traffic
- Wet areas (not immersed)
- With under subfloor heating

PRODUCT CHARACTERISTICS

Appearance	Powder
Colour	Grey
Age	Compressive Strength
5 hours	7 - 10 MPa
1 day	15 - 20 MPa
7 days	20 - 25 MPa
28 days	≥ 35 MPa

PRODUCT CHARACTERISTICS (cont.)

Age	Tensile Adhesion Strength
1 day	≥ 2 MPa
28 days	≥ 4 MPa

SETTING TIME

Initial Set	1.5 - 2 hours
Final Set	2 - 3 hours
Reflow time	10 - 15 minutes
Ready for foot traffic	2 - 3 hours
Ready for floor coverings	6 - 8 hours

WORKING TIME

Temperature	Times
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	2.05 Kg/L 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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PRODUCT INFO

Product codes		
30620729	20kg	Ultra Level C500
30608708	5L	Ultra Prime A510
30607467	7KG	Ultra Prime Grip A520

BOSTIK ULTRA LEVEL C500

APPLICATION INSTRUCTIONS

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 Technical Data Sheet.

PRIMING

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

- Porous Substrate: Must be primed with **Bostik ULTRA PRIME A510** Concentrate.
- Non Porous: Must be primed with **Bostik ULTRA PRIME GRIP A520**.
- 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 ULTRA MOISTURE SEAL E500** be applied as a vapour barrier. Refer to the **Bostik ULTRA MOISTURE SEAL E500** Technical Data Sheet. Floors treated with **Bostik ULTRA MOISTURE SEAL E500** should be treated as a non-porous surface and primed with **Bostik ULTRA PRIME GRIP A520**.
- Always refer to the primers Technical Data Sheet for more information.

Porous Floors

Depending on the porosity of the substrate, **Bostik ULTRA PRIME A510** can be used neat or can be diluted in a 2:1 ratio (2 parts of water to 1 part concentrate).

- Apply **Bostik ULTRA PRIME A510** 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 **Bostik ULTRA LEVEL C500**.

Non-Porous Floors

- **Bostik ULTRA PRIME GRIP A520** 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 ULTRA PRIME GRIP A520** 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.

MIXING

Bostik ULTRA LEVEL C500 requires 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 ULTRA LEVEL C500** 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.

Placing

Primed areas should receive the **Bostik ULTRA LEVEL C500** as soon as possible to avoid dust and surface contamination affecting adhesion of the **Bostik ULTRA LEVEL C500** 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.
- For very large areas, **Bostik ULTRA LEVEL C500** 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.

BOSTIK ULTRA LEVEL C500

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 ULTRA LEVEL C500** 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:

$$\text{Number of Bostik ULTRA LEVEL C500 bags} = \frac{(\text{Floor Area (in m}^2\text{)} \times \text{Application Thickness (in mm)})}{\text{Mix Volume (in litres)}}$$

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

IMPORTANT NOTES

- **Bostik ULTRA LEVEL C500** must not be used in areas subject to permanent wetting or where back water pressure is likely.
- **Bostik ULTRA LEVEL C500** 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 ULTRA LEVEL C500** is applied moves or cracks, reflective cracking will occur in the **Bostik ULTRA LEVEL C500**.
- For large and thick sections, it is advised to check the moisture content of **Bostik ULTRA LEVEL C500** prior to application of floor coverings.
- Check concrete substrates for moisture content prior to application of **Bostik ULTRA LEVEL C500**. For new concrete surfaces, it is recommended must be at least 21 days old prior to application of **Bostik ULTRA LEVEL C500**.
- Do not mix by hand.
- Do not add excess water.
- If **Bostik ULTRA LEVEL C500** 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.

BOSTIK CO-OPERATIVE TEST PROGRAM

Bostik offer a service in which a program has been established to eliminate potential field problems by pre-testing Bostik products with samples of building materials to which the product will be applied. This service is available on large projects where pre-application testing will aid in determining the correct product. Consult a Bostik representative for further information.

CLEAN-UP

Bostik ULTRA LEVEL C500 should be removed from tools and equipment with clean water immediately after use.

STORAGE & SHELF LIFE

Bostik ULTRA LEVEL C500 has a shelf life of 12 months in unopened bags. Must be stored in a cool dry elevated place and protected from humidity.

PACKAGING

Bostik ULTRA LEVEL C500 is supplied in a 20 kg poly lined bag

VOC

SCAQMD VOC % <1
US RULE 1168 VOC g/L <1

PRECAUTIONS 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/australia for copies.

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

BOSTIK HOTLINE

Smart help 1800 267 845



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