

ULTRA LEVEL SCREED C310

FAST SETTING, HIGH BUILD CEMENTITIOUS SCREED

01 Sep 2021

YOUR SMART ADVANTAGES

- Replaces the need for sand and cement mixing onsite
- Single component – just add water
- Rapid setting, shrinkage compensated to minimise cracking during cure
- Can be walked on after 1 hour depending on site temperature and condition
- Accepts waterproofing membrane after 4 hours @ 20°C
- Most floor coverings can be applied after 24 hours
- Excellent bond strength to concrete and fc sheet substrate

DESCRIPTION

A fast setting high build modified cementitious levelling screed. Specially formulated for quick and easy application to achieve required falls without any shrinkage or cracking.

USES

- Externally, balconies or in ramp applications
- Wet areas where controlled falls are required
- Onto concrete and FC (Cement sheet) sheet substrate
- Residential, commercial or medium industrial applications
- As a system in conjunction with Bostik wet area internal waterproofing membranes

PRODUCT CHARACTERISTICS

Colour	Grey
Age	Compressive Strength
1 day	7-15 Mpa
7 days	15-20 Mpa
28 days	20-30 Mpa
Age	Bond Strength
7 days	≈ 3Mpa
28 days	≈ 5Mpa

WORKING TIME

Initial Set	20°C	40-45minutes
	30°C	30-40minutes
Final Set	20°C	50-60minutes
	30°C	40-50minutes

SETTING TIMES

Tested in accordance to ASTM C191-08

Temperature	Times
10°C	Approx. 60 minutes
20°C	40-45 minutes
30°C	30-40 minutes

APPLICATION THICKNESS

Minimum	25mm unbonded/bonded
Maximum	200mm unbonded/bonded

TRAFFIC TIME 20°C

Pedestrian Traffic	Approx. 60 minutes
Time to cover with membrane/finished floor surface	4 hours

APPLICATION TEMPERATURE

Minimum	5°C
Maximum	30°C

DRYING TIME

Time (days)	Shrinkage (Microstrain)
7 days	< 150
28 days	< 400
56 days	< 600

FRESH WET DENSITY

1950 kg/m³ approx. (tested in accordance with AS 1012.5)

PRODUCT INFO

Product codes		
30605691	20kg	Ultra Level Screed C310
30608708	5L	Ultra Prime A510
30607467	7KG	Ultra Prime Grip A520

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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 the Technical Data Sheet.
- If applying over particleboard, fibre cement sheets must be laid down over the particleboard.

Priming

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

- Porous Substrate: Must be primed with with **Bostik Ultra Prime A510** or **Bostik ULTRA MULTIPRIME A530**.
- 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** is applied as vapour barrier. Refer to the Moisture Seal 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**.

Porous Floors

Bostik Ultra Prime A510 is supplied in a concentrate form and should be diluted 2 parts water to 1 part **Bostik Ultra Prime A510**.

- 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 flooring 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 Screed C310**.

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.
- DO NOT APPLY **Bostik ULTRA LEVEL Screed C310** TO AN UNPRIMED SURFACE.

MIXING

Bostik ULTRA LEVEL Screed C310 requires 2.0 - 2.5 litres of water (water demand varies depending to required consistency) 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 Screed C310** 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 consistency.
- **Bostik ULTRA LEVEL Screed C310** can also be mixed by creating a well in the middle of the product, gradually add pre-measured water mixing the product by shovel or trowel until a dry but moist workable mix is achieved. Transfer the mixed product into a clean container and carry and pour into recess.
- 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

15 - 200mm Bonded

25 - 200mm Unbonded

If using **Bostik ULTRA LEVEL Screed C310** as part of a wet-area system (e.g. shower recess), refer to Bostik's recommendations for waterproofing systems.

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APPLICATION INSTRUCTIONS (cont)

The following instructions are for use of **Bostik ULTRA LEVEL Screed C310** in a non-wet area flooring situation:

Placing

Primed areas should receive the **Bostik ULTRA LEVEL Screed** as soon as possible to avoid dust and surface contamination affecting adhesion of the **Bostik ULTRA LEVEL Screed C310** to the Primer.

- Pour the mixed material on the primed substrate
- Level around the perimeter to a designated height.
- Using a trowel or float in conjunction with a spirit level, work the screed to a fall.
- The minimum screed thickness is 15mm (for bonded application) as per AS 3958.

Curing

No special curing is required. The addition of water to **Bostik ULTRA LEVEL Screed C310** after it has started to stiffen is not recommended. Any **Bostik ULTRA LEVEL Screed C310** that has not been placed whilst still fully fluid should be discarded.

COVERAGE

A 20kg bag of **Bostik ULTRA LEVEL Screed C310** mixed with 2.5 litres of clean potable water will yield approximately 11.0 litres. Approximate coverage for various thicknesses is shown in the following table.

Thickness	Area m ² per 20kg bag
15mm	0.73 Bonded
20mm	0.55 Bonded
25mm	0.44 Unbonded / Bonded
40mm	0.26 Unbonded / Bonded
50mm	0.22 Unbonded / Bonded
100mm	0.10 Unbonded / Bonded
200mm	0.05 Unbonded / Bonded

Approximate yield - 91 bags per cubic metres.

Water Requirement per 20kg Bag

Maximum of 2.5 litres of water per 20kg powder. Water demand varies depending on site conditions and screed consistency requirements.

CLEAN-UP

Bostik ULTRA LEVEL Screed C310 should be removed from tools and equipment with clean water immediately after use.

STORAGE & SHELF LIFE

Bostik ULTRA LEVEL Screed C310 has a shelf life of approximately 12 months if kept in a dry environment completely away from moisture.

IMPORTANT NOTES

- For large and thick sections it is advised to check the moisture content of **Bostik Ultra Level Screed C310** prior to application of floor coverings.
- Protect from direct sunlight or drying winds during cure.
- **Bostik Ultra Level Screed C310** is not designed as a wearing coarse, scratch coat or as a water-proofing agent, and should only be used as an underlayment.
- Prior to application over particleboard, fibre cement sheet must be laid.
- Can be used externally but not where continuous submersion is prevalent ie, swimming pools and ponds.
- Check concrete substrates for moisture content prior to application of **Bostik Ultra Level Screed C310**. For new concrete surfaces, it is recommended must be at least 21 days old prior to application of **Bostik Ultra Level Screed C310**.

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.

Precaution Note:

When **Bostik ULTRA LEVEL Screed C310** is being used as part of a waterproofing system, always refer to Bostik's recommendations for waterproofing systems; or consult with Bostik Technical Services prior to commencement of works.

VOC

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

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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.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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