



# ULTRA LEVEL SCREED C310

## FAST SETTING, HIGH BUILD CEMENTITIOUS SCREED

TECHNICAL SHEET JULY 2025 – Version 2

### 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

**Bostik ULTRA LEVEL SCREED C310** 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.

### FUNCTIONAL CHARACTERISTICS

- 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

### TECHNICAL CHARACTERISTICS

Properties	Value
Colour	Grey
Age	<b>Compressive Strength</b>
1 day	7-15 MPa
7 days	15-20 MPa
28 days	20-30 MPa
Age	<b>Bond Strength</b>
7 days	≈ 3MPa
28 days	≈ 5MPa

### WORKING TIME

<b>Initial Set</b>	20°C	40-45minutes
	30°C	30-40minutes
<b>Final Set</b>	20°C	50-60minutes
	30°C	40-50minutes

### SETTING TIMES

Tested in accordance with ASTM C191-08

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

### APPLICATION THICKNESS

In accordance with AS3958

<b>Minimum</b>	15mm bonded 25mm unbonded
<b>Maximum</b>	200mm bonded 200mm unbonded

### TRAFFIC TIME 20°C

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

### APPLICATION TEMPERATURE

<b>Minimum</b>	5° C
<b>Maximum</b>	30° C

### DRYING TIME

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

<b>FRESH WET DENSITY</b>	1950 kg/m <sup>3</sup> approx. (tested in accordance with AS 1012.5)
<b>VOC</b>	SCAQMD VOC % <1 US RULE 1168 VOC g/L <1

### COVERAGE

A 20kg bag of **Bostik ULTRA LEVEL Screed C310** mixed with 2.7 litres of clean potable water will yield approximately 11.0 litres.

Approximate coverage for various application thicknesses is shown in the following table.

Thickness in mm	Area in m <sup>2</sup> (per 20Kg bag)
15	0.73 Bonded
20	0.55 Bonded
25	0.44 Unbonded / Bonded
40	0.26 Unbonded / Bonded
50	0.22 Unbonded / Bonded
100	0.10 Unbonded / Bonded
200	0.05 Unbonded / Bonded

Approximate yield - 91 bags per cubic metres.

## INSTALLATION

### 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 Patchfix Structural HB** 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:

- 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 Ultra NP primer**.

### 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 NP Primer** is supplied in a 4 Kg KIT (mixing 1 part A: 1 part B). 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 NP primer** 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.

### APPLICATION

#### Mixing

**Bostik ULTRA LEVEL Screed C310** requires 2.5 – 3.0 litres of water (water demand varies depending on the required consistency and site conditions) 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.

**DO NOT ADD MORE THAN 3L OF WATER PER 20 KG BAG.**

- 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.

#### Applying

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

#### Placing

For a non-wet area flooring situation.

Primed areas should receive the **Bostik ULTRA LEVEL Screed C310** 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.

#### 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 wet should be discarded.

## LIMITATIONS

- 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 e.g. 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**.

## Important Notes

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.

## CLEANING

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

## STORAGE

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

## PACKAGING

<b>Size</b>	20Kg bag
<b>Product codes</b>	30616173

## HEALTH AND SAFETY

This product contains small amounts of crystalline silica, of which some will be respirable (primarily respirable quartz). Prolonged or repeated inhalation of respirable quartz from this product may cause silicosis, a seriously disabling and fatal lung disease.

Do not breathe dust. Wear a dust mask when handling powder. Wear protective gloves and safety glasses at all times. Do not handle until safety precautions have been read and understood.

Product Safety Data Sheet must be read and understood before use. These are available on request and via the websites. Visit [www.bostik.co.nz](http://www.bostik.co.nz) for copies.

**For emergency information contact the National Poisons Information Centre, phone 0800 764 766 (0800 POISON) or CHEMCALL, phone 0800 243 622.**

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## BOSTIK HOTLINE

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