



# SL C500 ULTIMATE

## TWO-COMPONENT SMOOTHING COMPOUND

Date: 01 October 2021

Fact Sheet No.: TDS00842

### YOUR SMART ADVANTAGES

- Moisture tolerant
- Protein-free and Low-odour
- Suitable for use over some adhesive residues

### USES

Bostik SL C500 ULTIMATE is a two-part, cementitious underlayment for smoothing uneven floors prior to laying decorative floor coverings. It has excellent workability & flow characteristics and can be trowelled to a feather edge.

For the smoothing and levelling uneven subfloors before laying decorative floor coverings. Bostik SL C500 ULTIMATE can be laid over most common substrates including: concrete, sand/cement screeds, stone, anhydrite screeds, rigid metal, terrazzo & quarry tiles, asphalt and other strong, rigid subfloors. Bostik SL C500 Ultimate should not be used over old tackifier or water-soluble residues.

Bostik SL C500 ULTIMATE is totally protein-free and is suitable for use in biologically sensitive areas. The low-odour formulation makes Bostik SL C500 Ultimate ideal for use in occupied buildings. The moisture tolerant formula enables Bostik SL C500 ULTIMATE to be used to smooth rough, textured subfloors prior to the application of Bostik Screedmaster damp proof membranes.

It is suitable for use with warm water underfloor heating systems, provided a surface temperature of +27°C is not exceeded, and in areas of high solar gain. It is not to be used as a wearing surface and should always be covered with a floor covering. For interior use only.

### PRODUCT CHARACTERISTICS

Colour	Grey
Form	Powder and liquid
Composition	Blend of cement and latex liquid

Product Codes	30620337 20kg bag 30620338 4.3 litre polyjerries x 4
Storage/Shelf Life	Store and transport securely. Store for up to 6 months from date of manufacture in original, unopened packaging, clear of the ground, in cool, dry conditions within the temperature range +5°C to +25°C and out of direct sunlight. Protect from excessive drafts, frost, damp, condensation and dew.

### TYPICAL PERFORMANCE DATA (Approx.)

Application Temperature	+5°C to +25°C
Coverage	Approx. 5m <sup>2</sup> per bag at 2mm to 3mm depth (depending on the smoothness of the floor surface & application technique)
Gauging Liquid	SL C500 Ultimate Latex Liquid
Application Thickness	0mm to 10mm
Working Times	Up to 15 minutes after mixing (depending on ambient temperatures)
Drying Times	Foot traffic: approx. 1½ hours Loose lay textile floor coverings: approx. 8 hours Bond floor coverings: approx. 12 hours On non-absorbent subfloors lay floor coverings: approx. 24 hours (<3mm depth at +20°C, depending on ambient conditions)

Compressive Strength	Typically 28N/mm <sup>2</sup> after 28 days
Flexural Strength	Typically 10N/mm <sup>2</sup> after 28 days
Cleaning	Clean tools and equipment with warm soapy water immediately after use

#### DIRECTIONS FOR USE

**IMPORTANT:** Before using Bostik SL C500 ULTIMATE, refer to the relevant Health & Safety Data Sheet, available at [www.bostik.com/uk](http://www.bostik.com/uk).

All phases of installation should comply with the latest editions of:

- BS 8102 Code of Practice for protection of structures against water from the ground.
- BS 5325 Code of Practice for installation of textile floor coverings.
- BS 8203 Code of Practice for installation of resilient floor coverings.
- BS 8201 Code of Practice for installations of flooring of timber, timber products and wood based panel products.

#### PREPARATION

##### Subfloor:

1. Ensure the subfloor is sound, clean, dry and of adequate tensile and compressive strength, free from loose material, laitance, cracks and structural defects.
2. The subfloor should be tested in accordance with British Standards. A reading of 75% RH or less confirms that the subfloor is satisfactorily dry.
3. Any contaminants that may hinder adhesion such as grease, oil, dirt, dust, plaster, some curing compounds, surface hardeners, additives and adhesive residues must be completely removed.
4. Any deep depressions in the floor should be filled with Bostik Rapid Repair Mortar and allowed to dry.
5. For optimum performance, a room temperature of +13°C to +23°C should be maintained for at least 24 hours prior to application. The temperature of the subfloor must be at least +5°C throughout the application and drying of the smoothing compound. Ensure that a maximum room temperature of +25°C is not exceeded during application.

##### Underfloor heating systems:

6. Warm water underfloor heating systems must be switched off for 48 hours before installation. Wait 48 hours after installation before gradually turning up underfloor heating. However, if no other heat sources are available, please contact Technical Services for advice.
7. In some circumstances, Bostik SL C500 ULTIMATE can

be used over electrical radiant mats. Contact Technical Services for advice.

#### PRIMING

8. In all cases, the subfloor should be primed prior to the application of the smoothing compound, as shown in the table below. Priming of absorbent surfaces is recommended to prevent rapid drying of the smoothing compound and minimise the formation of pinholes. See separate technical data sheets for primer application and drying details.
9. When using Bostik SL C500 ULTIMATE over Bostik HYTEC A370 RAPID no priming is required. Refer to the Bostik HYTEC A370 RAPID technical data sheet for application details.

Absorbent substrates:	Bostik GRIP A526 UNIVERSAL (diluted 1:2 with water)
Dense/non-absorbent substrates including epoxy membranes:	Bostik GRIP A526 UNIVERSAL or Bostik GRIP E946 EPOXY (for applications above 10mm)
Calcium sulphate screeds:	Bostik GRIP E946 EPOXY (diluted 1:1 with water)
Applications in excess of 10mm of smoothing compound:	Bostik GRIP E946 EPOXY
Radiant/electrical underfloor heating systems:	Contact Technical Services

#### MIXING & APPLICATION DEPTH

10. Thoroughly shake SL C500 ULTIMATE Latex Liquid and pour the 4.3 litres into a clean mixing bucket. Gradually add the bag of Bostik SL C500 ULTIMATE powder to the liquid, whilst continually mixing with an electric drill and mixing paddle until a smooth, lump-free mixture is obtained. This will normally be achieved after 2 minutes. Do not under mix. Use the mixture immediately.
11. Unbulked mixture will remain workable for approximately 15 minutes under normal conditions. If the mix begins to stiffen before it has been spread, it must be discarded. Do not add further liquid or water.
12. Bostik SL C500 ULTIMATE can be applied from a feather edge up, to 10mm in a single application, although for best results a minimum 3mm application is recommended.
13. Where deeper sections are required (a depth of 10mm up to 20mm), the product should be bulked out with 3mm granite chippings. To the mixed unit add 12.5kg of chippings, whilst continuing to mix.

#### APPLICATION

14. Pour the mixed material onto the prepared subfloor in a

continuous operation and allow to flow.

15. Using a steel screeding trowel, spread evenly to the required depth and smoothness. The use of a spiked roller is highly recommended to de-aerate the product and ensure a smooth surface is achieved, particularly between adjacent mixes of material. This must be done whilst the compound is still fluid. Do not use a spiked roller once the product has begun to gel or set, as this will create imperfections. Any trowel marks remaining after the compound has set can be rubbed down with a sanding block.
16. When used over a Bostik Screedmaster surface damp proof membrane or other impervious surfaces, it is essential that a minimum 3mm depth (asphalt 5mm maximum) is applied in order to provide an absorbent medium for the adhesive.
17. When pre-smoothing a rough floor, prior to applying a Bostik Screedmaster damp proof membrane, it is recommended that the subfloor is primed with diluted Bostik GRIP A526 UNIVERSAL (4 parts water to 1 part primer). Allow primer to dry and then apply a minimum 3mm of Bostik SL C500 ULTIMATE. A Bostik Screedmaster damp proof membrane can be applied after a minimum of 12 hours, based on good ambient drying conditions.
18. Protect surface from traffic prior to laying a floor covering. Ensure the compound is fully dry before applying a floor covering.

#### DRYING TIMES

19. Protect freshly applied product from strong sunlight and through draughts, as this can dehydrate the product, resulting in incorrect curing. Also, protect from rain and frost. Do not force dry the smoothing compound, as this may affect the curing process.
20. The drying time depends on how absorbent the subfloor is, the air humidity and both the ambient & floor temperatures.
21. Ceramic, textile and vinyl floor coverings can be laid directly over Bostik SL C500 ULTIMATE after the following times:

Loose lay floor coverings:	8 hours approx. (<3mm depth at +20°C)
Bond floor coverings:	12 hours approx. (<3mm depth at +20°C)
On non-absorbent subfloors lay floor coverings:	24 hours approx. (<3mm depth at +20°C)
Other floor coverings:	Contact Technical Services

The working and drying times of the compound will be reduced in higher temperatures and increased in lower temperatures.

#### CLEANING

22. Clean tools and equipment with warm soapy water immediately after use. Remove surplus compound from surfaces whilst it is still wet. Cured material can only be removed mechanically.

#### PRECAUTIONS IN USE

Do not use as a substitute for a DPM.

Application in high temperatures may result in rapid setting and poor flow. The rapid loss of water may increase the risk of cracking. Do not force dry this product.

For any application not covered, please contact Technical Services on +44 (0)1785 272625 or visit [www.bostik.com/uk](http://www.bostik.com/uk) for advice.

Recommendations and suggestions are for guidance only, since conditions of use are completely beyond our control.

For health and safety instruction, first aid measures and spillage and disposal instructions, see separate Health and Safety Data sheet for Bostik SL C500 ULTIMATE, available at [www.bostik.com/uk](http://www.bostik.com/uk).

BOSTIK HOTLINE

Smart help +44 (0) 1785 272625



**CONSTRUCTION PRODUCT REGULATION  
DECLARATION OF PERFORMANCE**

**No: TDS00842 / DOP: 401-21-3171**

Product Description: **Bostik SL C500 Ultimate powder**  
Product Code: **5010591013018 & 5010591013025**  
Intended Use: **Cementitious screed material**  
Manufacturer:  
Contact Address: **Bostik Ltd  
Common Road  
Stafford  
ST16 3EH**  
System of Assessment: **System 4**  
Harmonised Standard: **EN 13813:2002**  
Declared Performance: **CT-C25-F7**

Essential characteristics	Performance	Harmonised technical specification
Compressive strength	>29N/mm <sup>2</sup>	<b>EN 13813:2002</b>
Flexural strength	>9/mm <sup>2</sup>	
Reaction to fire	F	

The performance of the product Bostik SL C500 Ultimate 5010591013018 & 5010591013025 is in conformity with the declared performance shown in the table above.

This declaration of performance is issued under the sole responsibility of Bostik Ltd.

**Signed for and on behalf of Bostik Ltd by:**

**Name:** Marrienne Drayton

**Function:** Quality Manager

**Signature:**



**Date:** January 2021

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