



# SL C955 ADVANCED

## HIGH PERFORMANCE SMOOTHING COMPOUND

TECHNICAL SHEET NO: TDS02246 22/08/2023

### SMART ADVANTAGES

- Exceptional flow & adhesion
- Suitable for use over most adhesive residues
- Moisture tolerant

### DESCRIPTION

Bostik SL C955 ADVANCED is a high performance, two-part cementitious underlayment which offers excellent adhesion on most subfloors without priming. It is particularly suitable for use over old adhesive residues (including bitumen and carpet tile tackifiers).

Bostik SL C955 ADVANCED smooths and levels subfloors prior to installing all types of floor coverings. It can be applied over most common substrates including: old bitumen, ceramic tiles, flooring grade plywood, concrete, sand/cement screeds, stone, rigid metal, terrazzo (take care to degrease and prepare surface), quarry tiles, asphalt and other strong, rigid subfloors. It is ideal for use where low-odour products are required.

Bostik SL C955 ADVANCED is specially formulated to be used in conjunction with waterborne underfloor heating systems and can also be used to encapsulate electric cable type heating. Due to its high adhesion and low shrinkage properties, it can be used without a primer onto most substrates in both domestic and commercial locations.

Bostik SL C955 ADVANCED is ideal for refurbishment projects and may be applied onto firmly bonded thermoplastic tiles which have been installed on bituminous adhesives. Tiles must be stable, clean and degreased.

NOTE: Bostik SL C955 ADVANCED should not be used on top of existing vinyl, rubber, linoleum, cork or moisture sensitive floor coverings.



### TECHNICAL CHARACTERISTICS

<b>Colour</b>	Grey
<b>Form</b>	Powder and liquid
<b>Specific gravity</b>	Density of mixed mortar 2.1
<b>Composition</b>	Blend of specialist cement and polymer liquid
<b>Application temperature</b>	+5°C to +27°C
<b>Gauging liquid</b>	Bottled liquid
<b>Application thickness</b>	Neat: 2mm to 12mm Bulked: 12mm to 30mm
<b>Working times</b>	Up to 20 minutes after mixing (depending on ambient temperature and humidity)
<b>Drying times</b>	Foot traffic: approx. 2 hours Floor coverings: approx. 4 hours (depending on ambient temperature and humidity)
<b>Compressive strength</b>	Typically, 16N/mm <sup>2</sup> after 28 days
<b>Flexural strength</b>	Typically, 6N/mm <sup>2</sup> after 28 days

### COVERAGE

- Approx. 5m<sup>2</sup> per bag at 3mm thickness
  - Approx. 3m<sup>2</sup> per bag at 5mm thickness
- (depending on the smoothness and absorbency of the floor surface)

## APPLICATION

**IMPORTANT:** Before using Bostik SL C955 ADVANCED, refer to the relevant Health & Safety Data Sheet, available at [www.bostik.com/uk](http://www.bostik.com/uk).

All phases of the application should comply with the current 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 for flooring of timber, timber products and wood-based panel products.

Always ensure the correct PPE is worn during use.

## PREPARATION

- Ensure the subfloor is clean, sound and dry (<75%RH), free from laitance, cracks, structural defects and contaminants that may prevent adhesion (dust, oil grease, paint, plaster, polish and poorly bonded adhesive residues), and conforms to BS 8204 Code of Practice.
- The temperature of the floor must be stable and maintained between +5°C and +25°C throughout the application and drying of the underlayment.

## UNDERFLOOR HEATING

- Bostik SL C955 ADVANCED can be used on substrates containing warm water underfloor heating systems. The system must be switched off 48 hours prior to, during and for 48 hours post application. To prevent rapid dehydration, wait 48 hours after installation before gradually turning up underfloor heating.
- Bostik SL C955 ADVANCED can be used to encapsulate electrical underfloor heating. The system must be switched off 48 hours prior to, during and for 48 hours post application. To prevent rapid dehydration, wait 48 hours after installation before gradually turning up underfloor heating.

## PRIMING

### Absorbent substrates:

- When applying Bostik SL C955 ADVANCED, it is beneficial to prime or dampen (with water) absorbent surfaces. This will minimise preferential absorption and will reduce the risk of pin holing and extend the working time to result in the ideal surface finish.
- Prime with diluted Bostik GRIP A526 UNIVERSAL PRIMER at a ratio of 1 : 2 (1 part liquid to 2 parts clean, cold water). Very absorbent surfaces will benefit from a second application of primer.
- When dampening down with water, always allow the surface to matt off and ensure that no surface water is present.

### Non-absorbent substrates:

- Priming of sound, flooring grade asphalt, firmly bonded adhesive residues, terrazzo & quarry tiles, and non-flexing steel surfaces is not required due to the exceptional adhesion properties of Bostik SL C955 ADVANCED.

## Pre-smoothing:

- Bostik SL C955 ADVANCED can be used to pre-smooth uneven subfloors to facilitate an application of a Bostik HYTEC moisture barrier.

## Gypsum (anhydrite screeds):

- Non-cementitious screeds based on anhydrite or hemihydrate (generally referred to as calcium sulphate screeds) must be tested for moisture content in accordance with BS 8203 : 2017 Installation of Resilient Floor Coverings prior to applying Bostik products. Removal of surface laitance must be carried out before moisture testing and application of the compound.
- For screeds reading below 75% RH, a primer must be applied to prevent reaction between the screed and the cementitious smoothing compound. Bostik GRIP A256 UNIVERSAL PRIMER (diluted 1 : 3 with water) is recommended.
- Note: Application on any substrate at a thickness greater than 10mm will require the inclusion of Bostik GRIP A936 XPRESS PRIMER.

## MIXING & APPLICATION THICKNESS

- Mix only 4.75L Bostik SL C955 ADVANCED liquid with 20kg Bostik SL C955 ADVANCED powder.
- Gently shake the Bostik SL C955 ADVANCED liquid and pour the 4.75 litres into a clean mixing bucket.
- Gradually add the 20kg bag of Bostik SL C955 ADVANCED 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.
- Note: the addition of too much liquid may result in separation of the compound.
- Bostik SL C955 ADVANCED can be applied from 2mm to 12mm in a single application.
- Where thicker applications are required (a thickness of 12mm up to 30mm), the product should be bulked out with 3mm granite chippings. To the mixed unit add the chippings by equal volume whilst continuing to mix.
- The mixture will remain workable for approximately 20 minutes under normal conditions. If the mix begins to stiffen before it has been spread, it must be discarded. Do not add further liquid.

## APPLICATION

- Pour the mixed material onto the prepared subfloor in a continuous operation.
- Using a steel trowel or pin rake, apply Bostik SL C955 ADVANCED evenly to the required thickness.
- Use a spiked roller to deaerate and smooth out any trowel lines whilst the compound is still fluid.
- Protect surface from traffic prior to laying a floor covering. Ensure the compound is fully dry before applying a floor covering.

## DRYING TIMES

- Drying times may vary depending upon site conditions, substrate type and installation environment.
- Based on good ambient conditions of +20°C, the compound will remain workable for approximately 20 minutes after mixing, will take light foot traffic after 2 hours, and will be ready to receive floor coverings in as little as 4 hours.

- The drying time depends on how absorbent the subfloor is, the air humidity and both the ambient & floor temperatures.

#### CLEANING

- Clean tools and equipment with warm, soapy water immediately after use. Remove surplus compound from surfaces whilst it is still wet. Dried and hardened compound can only be removed mechanically.

#### STORAGE

- Store and transport securely. Store for up to 9 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.

#### PRECAUTIONS IN USE

Protect surface from foot traffic prior to installing a floor covering. Ensure the compound is fully dry before installing a floor covering. During drying, protect the freshly applied product from strong sunlight and through draughts. Protect from rain and frost. Do not force dry the compound. If applying to asphalt, ensure a minimum application thickness of 3mm and a maximum application thickness of 6mm is observed and the material is applied uniformly.

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 C955 ADVANCED, available at [www.bostik.com/uk](http://www.bostik.com/uk).

#### PACKAGING

<b>Product codes</b>	30608882	20kg bag
	30626372	4.75L polyjerry x 4

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Sales	Tel: 0844 371 1192	<a href="mailto:customer.service@bostik.com">customer.service@bostik.com</a>
Technical Advice	Tel: 0844 371 1197	<a href="mailto:technical.service@bostik.com">technical.service@bostik.com</a>
Safety Data Sheets	Tel: 01785 272625	<a href="mailto:sds.box-eu@bostik.com">sds.box-eu@bostik.com</a>

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**Bostik Ltd**  
Common Road,  
Stafford, ST16 3EH, UK  
Phone: +44 (0)1785 272625  
[www.bostik.com/uk](http://www.bostik.com/uk)

**BOSTIK HOTLINE**

Smart help +44 (0)1785 272625



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