



# SL C955 ADVANCED

## HIGH PERFORMANCE SMOOTHING COMPOUND

TECHNICAL SHEET NO: TDS02246 27/03/2024

### 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 is ideal for use where low-odour products are required.

It can be applied over most common substrates including old bitumen, concrete subfloors, sand/cement screeds, stone, calcium sulphate-based screeds, mastic asphalt, rigid metal and firmly bonded unglazed ceramic, terrazzo & quarry tiles (take care to degrease and prepare surface). It may also be used over sound, firmly bonded timber flooring such as flooring grade plywood and P5 chipboard, provided the timber is mechanically fixed. It is not suitable for use over existing vinyl, rubber, linoleum, cork or moisture sensitive floor coverings.

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.

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.

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



### TECHNICAL CHARACTERISTICS

<b>Colour</b>	Grey
<b>Form</b>	Powder and liquid
<b>Composition</b>	Blend of specialist cement and polymer liquid
<b>Application temperature</b>	+5°C to +27°C
<b>Gauging liquid</b>	Bostik SL C955 ADVANCED liquid
<b>Application thickness</b>	2mm to 12mm Bulked: 12mm to 30mm
<b>Working times</b>	Up to 20 minutes after mixing (depending on ambient temperature and humidity) Light foot traffic: approx. 2 hours Loose lay floor coverings: approx. 4 hours Bonded floor coverings: approx. 4 hours Resilient floor coverings: approx. 4 hours
<b>Drying times</b>	Ceramic tiles: approx. 4 hours Textile coverings: approx. 4 hours (2mm thickness at +20°C, depending on application thickness, ambient temperature and humidity)

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<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 below ground structures against water ingress.
- 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 installation of flooring of wood and wood-based panels.

Ensure the correct PPE is worn during use.

#### PREPARATION

- Ensure the subfloor is clean, sound and dry (<75%RH), of adequate tensile & compressive strength, free from laitance, cracks, structural defects and contaminants that may prevent adhesion (e.g., dust, oil grease, paint, plaster, polish and poorly bonded adhesive residues), and conforms to BS 8204 code of practice.
- The temperature of the floor and application environment must be stable and maintained between +5°C and +27°C throughout the application and drying of the smoothing compound.

#### 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 radiant 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.

#### PLYWOOD AND CHIPBOARD SUBSTRATES

- The timber-based substrate must be acclimatised and fixed in accordance with the industry standards.
- The surface must be clean dry and dust free.
- An application thickness of 6mm should not be exceeded on timber-based substrates.

#### GYPSUM (ANHYDRITE SCREEDS)

- Non-cementitious screeds based on anhydrite or hemihydrate (generally referred to as calcium sulphate-based 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 smoothing 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 (diluted 1 : 3 with water) is recommended.
- Non-cementitious screeds based on anhydrite or hemihydrate (generally referred to as calcium sulphate-based screeds) that contain underfloor heating systems, must be fully dry (reading 75%RH or lower) prior to the application of Bostik primers and smoothing compounds.
- An application thickness of 10mm should not be exceeded on calcium sulphate-based substrates.

#### PRIMING

##### Porous 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.

##### Dense/non-porous substrates:

- Priming of sound, mastic 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.
- Bostik SL C955 ADVANCED can be applied directly to Bostik HYTEC E570 ONE COAT without the need to use a primer as long as the application is undertaken within 24 hours.

##### Calcium sulphate-based screeds:

- Prime with Bostik GRIP A526 UNIVERSAL, diluted 1 : 3 with water (for applications up to 10mm max).

##### Pre-smoothing:

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

#### 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. Optimal results can be achieved

by allowing the mixed material to stand/mature for 1 minute and then mixing again for 1 minute.

- Note: adding additional liquid/water may result in separation of the compound.
- Bostik SL C955 ADVANCED can be applied from 2mm to 12mm in a single application - 10mm maximum total thickness on sound & primed calcium sulphate-based screeds and 3mm minimum & 5mm maximum total thickness on sound & degreased mastic asphalt. Contact Technical Services for further details.
- 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 unbulked 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 the smoothing compound and smooth out any trowel lines whilst the smoothing compound is still fluid.
- Protect surface from traffic prior to laying a floor covering. Ensure the smoothing compound is fully dry before applying a floor covering.

#### DRYING TIMES

- Drying times may vary depending upon site conditions, substrate type and installation environment.
- The drying time depends on how absorbent the subfloor is, the air humidity and both the ambient & floor temperatures.
- Thicker applications will prolong overall drying times.
- Based on good ambient conditions of +20°C and 2mm thickness, the smoothing compound can be laid directly over after the following times:

Light foot traffic	2 hours approx.
Loose lay floor coverings	4 hours approx.
Bonded floor coverings	4 hours approx.
Resilient floor coverings	4 hours approx.
Ceramic tiles	4 hours approx.
Textile coverings	4 hours approx.
Other floor coverings	Contact Technical Services

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

#### CLEANING

- Clean tools and equipment with warm, soapy water immediately after use. Remove surplus smoothing compound

from surfaces whilst it is still wet. Dried and hardened smoothing 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

Do not use as a substitute for a DPM. An effective membrane is required to prevent water entering the system. Protect surface from foot traffic prior to installing a floor covering. Ensure the smoothing 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 smoothing compound. Application in high temperatures may result in rapid setting and poor flow. The rapid loss of water may increase the risk of cracking.

The mix ratios and temperatures need to be followed accurately. Changing the mix ratios will disrupt the system and risk product failure.

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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