



BOSTIK

SL C540 FLOW

TWO-COMPONENT, HIGH FLOW, EASY TROWELLING SMOOTHING COMPOUND

TECHNICAL SHEET NO: TDS01730 30/07/2025

SMART ADVANTAGES

- Excellent flow characteristics
- Can be used over firmly bonded adhesive residues
- Protein-free and low-odour

DESCRIPTION

Bostik SL C540 FLOW is a two-part cementitious underlayment with improved flow for smoothing and levelling uneven floors. It has excellent workability and flow and is self-smoothing.

It can be laid over most common substrates including concrete subfloors, sand/cement screeds, stone, calcium sulphate-based screeds, mastic asphalt and firmly bonded unglazed ceramic, terrazzo & quarry tiles. It is not suitable for use over existing adhesive or water-soluble residues.

Bostik SL C540 FLOW is protein-free, making it suitable for use in biologically sensitive areas. The low-odour formulation makes Bostik SL C540 FLOW ideal for use in occupied buildings. The moisture tolerant formulation enables Bostik SL C540 FLOW to be used to smooth rough textured subfloors prior to the application of Bostik damp proof membranes in buildings incorporating a base DPM.

It is suitable for use with warm water 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

Colour	Grey
Form	Powder and liquid
Composition	Blend of cement and latex liquid
Application temperature	+5°C to +27°C
Gauging liquid	Bostik SL C540 FLOW liquid
Application thickness	3mm to 10mm Bulked: 10mm to 20mm
Working times	Up to 20 minutes after mixing (depending on ambient temperature and humidity)
Drying times	Light foot traffic: approx. 90 minutes Loose lay floor coverings: approx. 8 hours Bonded floor coverings: approx. 12 hours Resilient floor coverings: approx. 12 hours Ceramic tiles: approx. 12 hours Textile coverings: approx. 12 hours Over truly non-absorbent subfloors allow 24 hours before laying floor coverings

Page 1 of 4

	(3mm thickness at +20°C, depending on application thickness, ambient temperature and humidity)
Compressive strength	Typically, 25N/mm ² after 28 days
Flexural strength	Typically, 7N/mm ² after 28 days

COVERAGE

- Approx. 5m² per bag at 3mm thickness (depending on the smoothness and absorbency of the floor surface)

APPLICATION

IMPORTANT: Before using Bostik SL C540 FLOW, refer to the relevant Health & Safety Data Sheet, available at 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, some curing compounds, surface hardeners, additives and adhesive residues must be completely removed), and conforms to BS 8204 code of practice.
- Any deep depressions in the floor should be filled with Bostik Rapid Repair Mortar and allowed to dry.
- 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 C540 FLOW 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.
- For electrical radiant underfloor heating systems, please contact Technical Services.

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

- When applying Bostik SL C540 FLOW, the subfloor must be primed prior to the application of the smoothing compound. See table below, refer to separate technical data sheets for primer application and drying times.
- Priming will minimise preferential absorption and will reduce the risk of pin holing and extend the working time to result in the ideal surface finish.
- When using Bostik SL C540 FLOW over Bostik HYTEC A370 RAPID, no priming is required. Refer to the separate technical data sheet for full details.

Porous substrates	Bostik GRIP A526 UNIVERSAL (diluted 1 : 2 with water)
Dense/non-porous substrates, including epoxy membranes	Undiluted Bostik GRIP A526 UNIVERSAL or Bostik GRIP A936 XPRESS (for applications above 10mm)
Calcium sulphate-based screeds	Bostik GRIP A526 UNIVERSAL (diluted 1 : 3 with water) Once dry, apply a second coat of primer (diluted 1 : 1 with water) (for applications up to 10mm max)
Applications in excess of 10mm of smoothing compound	Bostik GRIP A936 XPRESS
Mastic asphalt	Undiluted Bostik GRIP A526 UNIVERSAL (for applications up to 5mm max)

PRE-SMOOTHING:

- When pre-smoothing a rough floor, prior to the application of Bostik HYTEC E570 ONE COAT, prime the subfloor with diluted Bostik GRIP A526 UNIVERSAL (4 parts water to 1 part primer). Allow primer to fully dry and then apply Bostik SL C540 FLOW at a minimum thickness of 3mm and allow to fully dry.

MIXING & APPLICATION THICKNESS

- Mix only 4.17L Bostik SL C540 FLOW liquid with 20kg Bostik SL C540 FLOW powder.
- Gently shake the Bostik SL C540 FLOW liquid and pour the 4.17 litres into a clean mixing bucket.
- Gradually add the 20kg bag of Bostik SL C540 FLOW 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 may result in separation of the smoothing compound.
- Bostik SL C540 FLOW can be applied from 3mm to 10mm in a single application - 10mm maximum total thickness on sound & primed calcium sulphate-based screeds and 5mm maximum total thickness on sound & primed mastic asphalt. Contact Technical Services for further details.
- Where thicker applications are required (a thickness of 10mm up to 20mm), the product should be bulked out with 3mm granite chippings. To the mixed unit add 12.5kg chippings, 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, apply Bostik SL C540 FLOW 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 3mm thickness, the smoothing compound can be laid directly over after the following times:

Light foot traffic	90 minutes approx.
Loose lay floor coverings	8 hours approx.
Bonded floor coverings	12 hours approx.
Resilient floor coverings	12 hours approx.
Ceramic tiles	12 hours approx.
Textile coverings	12 hours approx.
Over truly non-absorbent subfloors, before laying floor coverings	24 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 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 C540 FLOW, available at www.bostik.com/uk.

PACKAGING

Product codes	30620342	20kg bag
	30620343	4.17L polyjerries x 4

This disclaimer is issued by Bostik Limited ("the Company") and applies to the use of any products supplied by the Company ("the Products") displayed on this Technical Data Sheet ("TDS"). Please read this disclaimer carefully before using any of the Products. Using this TDS and/or the Product constitutes your acceptance of this disclaimer. Its contents shall prevail over any directions of use and any disclaimer and/or exclusion or limitation of liability of the Company that may appear on the packaging of the Products.

This disclaimer sets out the entire financial liability of the Company (including any liability for the acts or omissions of its employees, agents and sub-contractors) to any user of the Products ("Product User") in respect of any use made or resale by the Product User, of any of the Products in this TDS.

This disclaimer does not affect the Company's liability for death or personal injury arising from the Company's negligence in respect of the Products, nor its liability for fraud, or fraudulent misrepresentation, nor any other liability that cannot be excluded or limited under applicable law.

The Company's total liability however arising and whether caused by tort (including negligence and breach of statutory duty), breach of contract or otherwise, arising in connection with the use made or resale by the Product User of any of the Products in this TDS shall be limited to the price paid for the Product by the Product User.

The Company shall not be liable to the Product User for any pure economic loss, loss of profit, loss of business, depletion of goodwill or otherwise, in each case whether direct, indirect or consequential, or any claims (including in respect of personal injury insofar as not caused by the Company's negligence) for consequential compensation whatsoever (howsoever caused) which arise out of or in connection with the use made or resale by the Product User of any of the Products in this TDS.

The Company shall not be liable to the Product User in relation to any loss for any use that is inappropriate or use that is otherwise than in accordance with the relevant instructions for use of the Products in this TDS or on the Product. Product Users are advised to confirm the suitability of the Products by their own tests.

This TDS covers just one of a large range of products supplied by the Company.

Full information on these products and advice on application is freely available from our fully trained staff throughout the country. In addition, specialist technical advice is available from our Technical Services Department. This TDS supersedes all previous TDSs relating to the Products, and users of it must ensure that it is the current issue. Destroy all previous TDS, and if in any doubt, contact the Company, quoting the code number in the top left-hand corner on the front of this document.

Telephone: 01785 272625

Sales: customer.service@bostik.com

Technical advice: technical.service@bostik.com

Safety data sheets: sds.box-eu@bostik.com

DISCLAIMER

Bostik offers this Technical Data Sheet ("TDS") for descriptive and informational use only. It is not a warranty, a contract or a substitute for expert or professional advice. Please also see the local product Safety Data Sheet for health and safety considerations.

The statements, technical information, data, and recommendations contained in this TDS are provided 'AS IS' and are not warranted or guaranteed in any way. They represent typical results for the products and are based on Bostik's research only. Since the conditions and methods of use of the products are beyond our control, Bostik expressly disclaims any and all liability and damages of whatever kind or nature that may arise from any use of the products, the results therefrom, or reliance on the information contained herein.

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

BOSTIK HOTLINE

Smart help +44 (0)1785 272625



All advice, recommendations, figures and safety regulations provided are based on careful investigations, as well as the current state of our experience and are without obligation. Although the documentation has been compiled with the greatest care, we do not accept any liability for inaccuracies, mistakes, typesetting or printing errors. We reserve the right to modify the respective product if we deem it necessary. Since the design, the quality of the substrate and the processing conditions are beyond our assessment, no liability can be accepted for work performed on the basis of this documentation. We therefore advise you to carry out practical tests on site yourself. Our general Terms and Conditions of Sale and Delivery apply to all our sales and deliveries.