



SL C951 DEEP

HIGH-STRENGTH, DEEP FILL SMOOTHING COMPOUND

Date: 01 October 2021

Fact Sheet No.: TDS01675

YOUR SMART ADVANTAGES

- Quick drying
- High strength
- Pumpable

USES

Bostik SL C951 DEEP is a protein-free, high-strength, rapid drying & hardening smoothing compound suitable for applications 5mm to 50mm deep in a single application. It is used for self-levelling, raising floor levels, forming slopes and ramps.

Bostik SL C951 DEEP can be laid over most common substrates including: concrete, sand/cement screeds, stone, anhydrite*, terrazzo & quarry tiles, unglazed ceramic tiles and other strong, rigid subfloors. Bostik SL C951 DEEP should not be used over adhesive residues or existing smoothing compounds.

As Bostik SL C951 DEEP is totally protein-free, it is suitable for use in biologically sensitive areas.

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 suitable for light to heavy-duty internal applications. It should only be used on subfloors protected from moisture from the ground and residual construction moisture. Do not use prior to applying surface DPM's. 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	Dry, free-flowing powder
Composition	Blend of cement, organic binders and fillers

Product Codes	30620341 20kg bag
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. 2.3m ² per bag at 5mm depth Approx. 1.2m ² per bag at 10mm depth Approx. 0.6m ² per bag at 20mm depth Approx. 0.25m ² per bag at 50mm depth (depending on the smoothness of the floor surface & application technique)
Gauging Liquid	Water
Application Thickness	5mm to 50mm
Working Times	Up to 20 minutes after mixing (depending on ambient temperatures)
Drying Times	Foot traffic: approx. 1½ hours (5mm depth at +20°C) & 3 to 4 hours at +10°C Ceramic tiles: approx. 3 to 4 hours (<10mm depth at +20°C). Minimum 24 hours (>10mm depth at +20°C) Textile & vinyl coverings: approx. 24 hours per 10mm depth at +20°C

	For other floor coverings, contact Technical Services (depending on ambient conditions)
Compressive Strength	Typically 38N/mm ² after 28 days
Flexural Strength	Typically 5N/mm ² after 28 days
Cleaning	Clean tools and equipment with warm soapy water immediately after use

DIRECTIONS FOR USE

IMPORTANT: Before using Bostik SL C951 DEEP, refer to the relevant Health & Safety Data Sheet, available at 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 for 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. 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:

5. 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.

PRIMING

6. In all cases, the subfloor must 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.

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 underfloor heating systems:	Contact Technical Services

MIXING & APPLICATION DEPTH

7. Pour 3.5 litres of clean, cold water into a clean mixing bucket. Gradually add the bag of Bostik SL C951 DEEP powder to the water, 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.
8. Bostik SL C951 DEEP can be applied from a minimum depth of 5mm, up to 50mm in a single application.

*Note: depth must not exceed 10mm on anhydrite subfloors.
9. 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 water.

Note: the addition of too much water may result in separation of the compound.

APPLICATION

10. Pour the mixed material onto the prepared subfloor in a continuous operation and allow to flow.
11. Using a steel screeding trowel, spread evenly to the required depth and smoothness. A spiked roller can be used if it is appropriate for the application depth. 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.

12. Protect surface from traffic prior to laying a floor covering. Ensure the compound is fully dry before applying a floor covering.

DRYING TIMES

13. 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.
14. The drying time depends on how absorbent the subfloor is, the air humidity and both the ambient & floor temperatures.
15. Ceramic, textile and vinyl floor coverings can be laid directly over Bostik SL C951 DEEP after the following times:

Ceramic tiles:	3 to 4 hours approx. (<10mm depth at +20°C) Minimum 24 hours (>10mm depth at +20°C)
Textile coverings:	24 hours per 10mm depth at +20°C
Vinyl floor coverings:	24 hours per 10mm 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

16. 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 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 C951 DEEP, available at www.bostik.com/uk.

BOSTIK HOTLINE

Smart help +44 (0) 1785 272625



**CONSTRUCTION PRODUCT REGULATION
DECLARATION OF PERFORMANCE**

No: TDS01675 / DOP: 385-21-3175

Product Description: **Bostik SL C951 DEEP**
Product Code: **5010591013056**
Intended Use: **Cementitious screed material**
Manufacturer: **Bostik Ltd**
Contact Address: **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	>35N/mm ²	EN 13813:2002
Flexural strength	>5N/mm ²	
Reaction to fire	F	

The performance of the product Bostik SL C951 DEEP 5010591013056 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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