



SL C525 SMOOTH

CEMENTITIOUS, WATER MIX SMOOTHING COMPOUND

Date: 05 October 2021

Fact Sheet No.: TDS01672

YOUR SMART ADVANTAGES

- Pumpable
- Excellent flow characteristics
- Protein-free & low-odour

USES

Bostik SL C525 SMOOTH is a single part, polymer modified, cementitious underlayment for the smoothing and levelling of uneven subfloors before laying decorative floor coverings. It is suitable for application by trowel and by mortar screw pump, to give an extremely smooth and level floor where required.

It can be laid over most common substrates including: cementitious screeds, concrete floors, calcium sulphate screeds, sand, strong asphalt and other strong, rigid subfloors. Bostik SL C525 SMOOTH should not be used over adhesive residues or low strength smoothing compound residue.

As Bostik SL C525 SMOOTH is protein-free, it is suitable for use in biologically sensitive areas. The low-odour formulation makes it ideal for use in occupied buildings.

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 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	30620340 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. 4m ² per bag at 3mm depth (depending on the smoothness of the floor surface & application technique)
Gauging Liquid	Water
Application Thickness	1mm to 10mm
Working Times	Up to 20 minutes after mixing (depending on ambient temperatures)
Drying Times	Foot traffic: approx. 2 hours Ceramic tile/textile floor coverings: approx. 12 hours Resilient floor coverings: approx. 24 hours (<3mm depth at +20°C, depending on ambient conditions)
Compressive Strength	Typically 30N/mm ² after 28 days
Flexural Strength	Typically 7.5N/mm ² after 28 days

Cleaning	Clean tools and equipment with warm soapy water immediately after use
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DIRECTIONS FOR USE

IMPORTANT: Before using Bostik SL C525 SMOOTH, 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 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.

PRIMING

7. 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.

8. When using Bostik SL C525 SMOOTH 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 underfloor heating systems:	Contact Technical Services

MIXING & APPLICATION DEPTH

9. Pour 4 litres of clean, cold water into a clean mixing bucket. Gradually add the bag of Bostik SL C525 SMOOTH 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.
10. 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 water.

Note: the addition of too much water may result in separation of the compound.
11. Bostik SL C525 SMOOTH can be applied from a minimum depth of 1mm, up to 10mm in a single application, except:
 - Sound, rigid, non-absorbent subfloors require a minimum depth of 3mm of Bostik SL C525 SMOOTH to ensure adequate absorbency for subsequent adhesives.
 - Sound, strong asphalt requires a depth of 3mm to 5mm.
 - If a second application of Bostik SL C525 SMOOTH is required, this can be carried out once it is ready to take foot traffic. Prime the first layer with Bostik GRIP A526 UNIVERSAL (diluted 1:2 with water), allow the primer to dry.
12. Where deeper sections are required (a depth of 10mm,

up to 20mm), the mix should be bulked out with 0mm to 5mm aggregate. To the mixed unit add 10kg of aggregate, whilst continuing to mix for a further two minutes.

APPLICATION

Trowel application:

13. Pour the mixed material onto the prepared subfloor in a continuous operation and allow to flow.
14. Using a steel screeding trowel, spread evenly to the required depth and smoothness. A pin level may be used to assist in gaining the required depth. 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.
15. Protect surface from traffic prior to laying a floor covering. Ensure the compound is fully dry before applying a floor covering.

Pump application:

16. Where large floor areas require levelling, it is beneficial to apply Bostik SL C525 SMOOTH by mortar screw pump. Application rates in excess of 200m² per hour at 5mm or 300m² per hour at 3mm are achievable by pump application. Care should be taken when pumping to undertake periodic flow tests of the compound, from the end of the hose. Flow test results should be 130mm to 140mm when using an EN 12706 flow tube.

DRYING TIMES

17. 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.
18. The drying time depends on how absorbent the subfloor is, the air humidity and both the ambient & floor temperatures.
19. Ceramic, textile and vinyl floor coverings can be laid directly over Bostik SL C525 SMOOTH after the following times:

Ceramic tile / textile floor coverings:	12 hours approx. (<3mm depth at +20°C)
Resilient 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

20. 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 C525 SMOOTH, available at www.bostik.com/uk.

BOSTIK HOTLINE

Smart help +44 (0) 1785 272625



**CONSTRUCTION PRODUCT REGULATION
DECLARATION OF PERFORMANCE**

No: TDS01672 / DOP: 400-21-3173

Product Description: **Bostik SL C525 SMOOTH**
Product Code: **5010591013049**
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	>30N/mm ²	EN 13813:2002
Flexural strength	>7N/mm ²	
Reaction to fire	F	

The performance of the product is Bostik SL C525 SMOOTH 5010591013049 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: Marriane Drayton

Function: Quality Manager

Signature: 

Date: January 2021

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