



Cempolates Cempolay

SMOOTHING COMPOUND

Date: 16 April 2021

Fact Sheet No.: TDS00276

YOUR SMART ADVANTAGES

- Smooths and levels
- Trowels to a feather edge
- Protein-free formulation

USES

Bostik Cempolay is a protein-free smoothing compound, based on a blend of cements and organic binders. It is suitable for smoothing and levelling interior subfloors, prior to laying decorative floor coverings.

Bostik Cempolay is ideal for smoothing and levelling prepared concrete subfloors, sand/cement screeds and sound, unglazed ceramic tiles.

It is not to be used as a wearing surface and should always be covered with a floor covering. It is not suitable for use with underfloor heating, in damp conditions, or as a floor topping. For interior use only.

PRODUCT CHARACTERISTICS

Colour	Grey
Form	Dry, free flowing powder
Specific Gravity	1.6 approx.
Composition	Blend of cement, organic binders and fillers
Product Codes	30812514 25kg 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. 5m ² per bag at 3mm depth Approx. 3m ² per bag at 5mm depth (depending on the smoothness of the floor surface & application technique)
Gauging Liquid	Water
Application Thickness	Feather edge to 5mm
Working Times	15 to 20 minutes after mixing (depending on ambient temperatures)
Drying Times	Foot traffic: approx. 2 to 4 hours (at +20°C) Lay floor coverings: approx. 16 hours (at +20°C)
Cleaning	Clean tools and equipment with warm, soapy water immediately after use

DIRECTIONS FOR USE

IMPORTANT: Before using Bostik Cempolay, 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, structural defects and rising damp. Ensure there is an effective damp-proof membrane, which conforms to BS 8203.
2. The subfloor should be tested in accordance with British Standards, using a properly calibrated and insulated hygrometer. 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. Bostik Cempolay does not tolerate any contamination.
4. Any cracks or holes in the floor must be cleaned out and filled with Bostik Rapid Repair Mortar. Allow to dry before applying Bostik Cempolay.
5. For optimum performance, a room temperature of +13°C to +18°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.

PRIMING

6. Prime porous surfaces with Bostik Cempolay Universal Primer, diluted with 2 parts water. Allow to dry before applying Bostik Cempolay.
7. Prime non-porous surfaces and unglazed ceramic tiles with undiluted Bostik Cempolay Universal Primer.

MIX RATIOS

Feather edge to 5mm depth:

- 5 litres of water to 25kg Bostik Cempolay.

5mm to 15mm depth:

- 5 litres of water to 25kg Bostik Cempolay + 25kg of dry, sharp sand.

MIXING & APPLICATION DEPTH

8. According to the mix ratios above, pour clean, cold water into a clean mixing bucket. Gradually add Bostik Cempolay powder to the water, whilst continually mixing with an electric drill and mixing paddle until a smooth, lump-free mixture is obtained.
9. Do not mix more compound than you can use in 15 minutes. The mixture will remain workable for approximately 15 to 20 minutes under normal conditions. If the mix begins to stiffen before it has been spread, it must be discarded. Do not re-temper, or add

further water.

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

10. Bostik Cempolay can be applied from a feather edge, up to 5mm deep in a single application, or up to 15mm when bulked out with sand.

Bulked out compound:

11. Where deeper sections are required, (a depth of 5mm up to 15mm) the product should be bulked out with sharp sand as per the ratio above. The sand must be dry, and added after mixing the water and powder together. Use the mix ratios and mixing process detailed above.

APPLICATION

12. Pour some of the mixed material onto the prepared subfloor and apply a thin scrape coat using a plasterer's trowel.
13. Immediately pour the rest of the mixture onto the subfloor in a continuous operation.
14. Trowel lightly from a feather edge to 5mm. Avoid over-trowelling.
15. For coatings varying from a minimum 5mm depth, up to 15mm, add sharp sand as described above and trowel to a smooth finish. The addition of sand will greatly extend set times and reduce the workability of the mix.
16. Protect surface from foot traffic prior to laying a floor covering. Ensure the compound is fully dry before applying a floor covering.

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. Application in high temperatures may result in rapid setting and poor flow. The rapid loss of water may increase the risk of cracking.
19. The drying time depends on how absorbent the subfloor is, the air humidity and both the ambient & floor temperatures.
20. Under good site conditions, Bostik Cempolay will normally take foot traffic 2 to 4 hours after application and floor coverings after approx. 16 hours. The walk on time and setting time will be delayed if the powder has been stored in temperatures below +10°C, or has been applied in temperatures below +20°C.
21. The working and drying times of the compound will be reduced in higher temperatures and increased in lower temperatures.

CLEANING

22. 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

Bostik Cempolay is not suitable for installations with underfloor heating.

Bostik Cempolay is not suitable for use on wooden or non-porous floors, asphalt and quarry tiles.

Do not use as a substitute for a DPM. An effective membrane is required to prevent water entering the system.

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 Cempolay, available at www.bostik.com/uk.

BOSTIK HOTLINE

Smart help +44 (0) 1785 272625



**CONSTRUCTION PRODUCT REGULATION
DECLARATION OF PERFORMANCE**

No: TDS00276

Product Description: **Bostik Cempolay**
Product Code: **5011734001572**
Intended Use: **Cementitious screed material**
Manufacturer:
Contact Address: **Bostik Ltd
Common Road
Stafford
ST16 3EH**
System of Assessment: **System 4**
Harmonised Standard: **EN 13813:2002**
Declared Performance: **CT-C16-F6**

Essential characteristics	Performance	Harmonised technical specification
Compressive strength	$\geq 16\text{N/mm}^2$	EN 13813:2002
Flexural strength	$\geq 6\text{N/mm}^2$	
Reaction to fire	F_{fl}	

The performance of the product Bostik Cempolay 5011734001572 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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Sales	Tel: 0844 371 1192	Fax: 01785 241818	customer.service@bostik.com
Technical Advice	Tel: 0844 371 1197	Fax: 01785 272867	technical.service@bostik.com
Safety Data Sheets	Tel: 01785 272625	Fax: 01785 212962	sds.box-eu@bostik.com