



# Cempolay Deep

## A CEMENT BASED SELF-LEVELLING COMPOUND

Date: 25 November 2019

Fact Sheet No.: TDS01647

### YOUR SMART ADVANTAGES

- 5mm to 50mm deep in a single application
- Suitable for use with underfloor heating
- Suitable for the direct laying of vinyl

### USES

Bostik Cempolay Deep is a protein-free, high strength, high performance deep self-levelling compound based on a blend of cements and organic binders. It is suitable for raising floor levels and levelling uneven sub floors in light to heavy-duty internal applications. The versatility of Bostik Cempolay Deep allows for application between 5-50mm thicknesses in a single use.

Bostik Cempolay Deep is ideal for smoothing/levelling of concrete, sand/cement screeds and unglazed ceramic tiles. It is also ideal for filling uneven floors and forming sloping screeds. However, this product is not suitable for use on mastic asphalt.

Bostik Cempolay Deep is suitable for use with warm water underfloor heating provided a temperature of 27°C is not exceeded. The heating must be switched off for at least 48 hours before and after application.

### PRODUCT CHARACTERISTICS

Form	Dry, free flowing powder
Colour	Grey
Composition	Blend of cement, organic binders and fillers
Specific Gravity	1.7 approx.
Product Code	30812527 20kg

### Storage/Shelf Life

Store for up to 6 months from date of manufacture when stored in the original, unopened packaging, clear of the ground, under cool, dry conditions within the temperature range of 5°C to 25°C. Protect from frost and excessive draughts.

### TYPICAL PERFORMANCE DATA (approx.)

Application Temperature	5°C to 25°C
Coverage	Approx. 2.3m <sup>2</sup> at 5mm thickness Approx. 1.2m <sup>2</sup> at 10mm thickness Approx. 0.6m <sup>2</sup> at 20mm thickness Approx. 0.27m <sup>2</sup> at 50mm thickness
Working Time	20 minutes after mixing at 20°C
Drying Times	Foot traffic: 1.5 hours approx. at 20°C 3 to 4 hours approx. at 10°C Ceramic tiles/textile coverings: 3 to 4 hours approx. (<10mm thickness) at 20°C 24 hours approx. (>10mm thickness) at 20°C 6 to 8 hours approx. (<10mm thickness) at 10°C 48 hours approx. (>10mm thickness) at 10°C Vinyl floor coverings: 24 hours approx. per 10mm thickness at 20°C Note: Drying/covering time will be extended at lower temperatures
Compressive Strength	≥35 N/mm <sup>2</sup> at 28 days

## DIRECTIONS FOR USE

IMPORTANT: Before using Bostik Cempolay Deep, refer to the relevant Health & Safety Data Sheet, available at [www.bostik.com/uk](http://www.bostik.com/uk).

All phases of installation should comply with the latest editions of:

BS CP102 Code of Practice for protection of buildings 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.

## PREPARATION

1. Wear protective gloves, clothing and eyewear.
2. The freshly applied compound should be protected from rain, frost, high temperatures and conditions causing rapid drying.
3. Ensure the subfloor temperature remains above 5°C throughout application and during drying.
4. Ensure the subfloor is clean, sound, dry and free from contaminants that may hinder adhesion, including surface hardeners, additives, oils, grease adhesive residue etc.
5. Ensure there is an effective damp-proof membrane that conforms to BS 8203: 1987.
6. Any cracks should be cleaned out and filled a suitable patch repair mortar.
7. 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.
8. Suitable for installations with fully commissioned underfloor heating, provided a surface temperature of 27°C is not exceeded. The heating must be switched off for at least 48 hours before and after application.
9. Suitable under parquet/wood floors > 5mm.

## PRIMING

10. Prime very porous surfaces or extremely dry surfaces with Bostik Cempolay Universal Primer diluted with 2 parts water. Allow to dry before applying Bostik Cempolay Deep.
11. Prime non-porous surfaces with undiluted Bostik Universal Primer and apply Bostik Cempolay Deep.

## MIXING RATIO

12. 3.5 litres of water to 20kg Bostik Cempolay Deep powder.

## MIXING

13. Accurately measure 3.5 litres of clean cold water into a suitable clean mixing container and gradually add 1 x 20kg bag of Bostik Cempolay Deep powder, mixing

continually with an electric stirrer until a smooth lump-free mixture is obtained. This will normally be achieved within 2 minutes. Do not under mix.

14. Once a smooth lump free mixture has been achieved mix for a further 2 minutes.
15. Do not mix more compound than you can use within 20 minutes.
16. Do not re-temper or add further water.

## APPLICATION

17. Pour the mixture onto the prepared sub-floor, as a continuous operation and allow to flow to obtain a smooth finish.
18. Spread evenly to the required thickness using a steel trowel.
19. Bostik Cempolay Deep can be applied from 5mm up to 50mm thickness in one application.
20. Protect surface from traffic prior to laying a floor covering.
21. Avoid application in high temperature as this may result in rapid setting and poor flow. The rapid loss of water may increase the risk of cracking.
22. A subfloor temperature of at least 5°C should be maintained throughout the application. A room temperature of between 13°C to 18°C should be maintained for at least 24 hours prior to application, whilst ensuring that a maximum room temperature of 25°C is not exceeded during application.
23. Bostik Cempolay Deep is suitable for application by pumping.
24. Under no circumstances should the smoothing compound be force dried as this may affect the curing process. The working area should be protected from direct sunlight and through draughts which may cause localised accelerated curing. The working time of the compound will be reduced at higher temperatures.

## CLEANING

25. Clean tools and equipment immediately after use with warm soapy water.
26. Whilst it is still wet, surplus adhesive must be removed from surrounds and tiled surfaces.
27. Remove bulk using a rubber squeegee.
28. Remove the residue of uncured material using a damp cloth.

## PRECAUTIONS IN USE

The mix ratios and temperatures need to be followed accurately. Changing the mix ratios will disrupt the system and risk product failure. An effective membrane is required to prevent water entering the system.

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 Cempolay Deep, available at [www.bostik.com/uk](http://www.bostik.com/uk).



**CONSTRUCTION PRODUCT REGULATION  
DECLARATION OF PERFORMANCE**

**No.: TDS01647**

Product Description: **BOSTIK CEMPOLAY DEEP**

Product Code: **5010591366015**

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-C35-F5**

Essential Characteristics	Performance	Harmonised technical specification
Reaction to Fire	<b>F</b>	<b>EN 13813:2002</b>
Compressive strength	<b>≥ 35 N/mm<sup>2</sup></b>	
Flexural Strength	<b>≥ 5 N/mm<sup>2</sup></b>	

The performance of the Bostik Cempolay Deep 5010591366015 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:** Alison Jamieson

**Function:** S.H.E.Q. Manager

**Signature:** 

**Date:** May 2014

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