



Cempolay Deep

A CEMENT BASED SELF-LEVELLING COMPOUND

Date: 26 July 2016

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 step.

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 paper sack

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	24 hours before application: Maintain a room temperature of between 13°C to 18°C. During application: Maintain a subfloor temperature of at least 5°C. Maintain a room temperature of between 13°C to 18°C not exceeding 25°C.
Coverage	Approx. 2.7m ² at 5mm thickness Approx. 1.35m ² at 10mm thickness Approx. 0.65m ² at 20mm thickness Approx. 0.27m ² at 50mm thickness
Working Time	20 minutes after mixing at 20°C
Compressive Strength	At 28 days > 35N/mm ²
Drying Times	Foot traffic: 1.5 hours at 20°C 3 to 4 hours at 10°C Ceramic tiles/textile coverings: 3 to 4 hours (<10mm thickness) at 20°C 24 hours (>10mm thickness) at 20°C 6 to 8 hours (<10mm thickness) at 10°C 48 hours (>10mm thickness) at 10°C Vinyl floor coverings: 24 hours per 10mm thickness at 20°C Note: Drying/covering time will be extended at lower temperatures.



FM 01696
BS EN ISO 9001:2008

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DIRECTIONS FOR USE

IMPORTANT: Before using Bostik Cempolay Deep refer to the relevant Health & Safety Data Sheet, available at www.bostik.co.uk.

PREPARATION

- 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.
- Wear protective gloves, clothing and eyewear.
- The freshly applied compound should be protected from rain, frost, high temperatures and conditions causing rapid drying.
- Ensure the subfloor temperature remains above 5°C throughout application and during drying.
- Ensure the subfloor is clean, sound, dry and free from contaminants which may hinder adhesion, including surface hardeners, additives, oils, grease adhesive residue etc.
- Ensure there is an effective damp-proof membrane that conforms to BS 8203:1987.
- Prime porous surfaces with Bostik Cempolay Universal Primer/Bostik SBR diluted with 2 parts water. Allow to dry before applying Bostik Cempolay Deep.
- Prime non-porous surfaces with undiluted Bostik Cempolay Universal Primer / SBR and apply Bostik Cempolay Deep while it is still tacky, usually about 30 minutes. If it has dried apply a further coat of Bostik Cempolay Universal Primer / Bostik SBR.
- Any cracks should be cleaned out and filled a suitable patch repair mortar.
- 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.
- 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.
- Suitable under parquet/wood floors > 5mm.

MIXING RATIO

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

MIXING

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

APPLICATION

- Pour the mixture onto the prepared sub-floor, as a continuous operation and allow to flow to obtain a smooth finish.
- Spread evenly to the required thickness using a steel trowel.
- Bostik Cempolay Deep can be applied from 5mm up to 50mm thickness in one application.
- Protect surface from traffic prior to laying a floor covering.
- 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.
- 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.
- Bostik Cempolay Deep is suitable for application by pumping.
- 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 localized accelerated curing. The working time of the compound will be reduced at higher temperatures.

CLEANING

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



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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.co.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.co.uk.

BOSTIK HOTLINE

Smart help +44 (0) 1785 272625



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**CONSTRUCTION PRODUCT REGULATION
DECLARATION OF PERFORMANCE**

No.: TDS01647

Product Description: **BOSTIK CEMPOLAY DEEP 25KG**
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 12813:2002**
Notified Body:
Declared Performance: **CT-C35-F5**

Essential Characteristics	Performance	Harmonised technical specification
Reaction to Fire	F	EN 12813:2002
Compressive strength	≥ 35 N/mm ²	
Flexural Strength	≥ 5 N/mm ²	

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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