

Date: 03 December 2013

Information Sheet No.: TDS01647

CEMENTONE CEMPOLAY DEEP

A CEMENT BASED SELF-LEVELLING COMPOUND

Cementone 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 application. It can be applied in layers between 5-50mm thickness in one step. Before using this product refer to the relevant Health & Safety Data Sheet.

Features

- Protein-free.
- Smooths and levels up from 5mm to 50mm thickness.
- For interior use.
- Suitable for use in hygiene and food preparation areas.
- Suitable for installations with underfloor heating.
- Suitable for use on domestic garage floors prior to over coating with a suitable floor paint.

Uses

- Concrete.
- Sand/Cement screeds.
- Unglazed ceramic tiles.
- Filling uneven floors and forming sloping screeds.

NOTE: This product is NOT suitable for use on mastic asphalt.

Product Characteristics

Colour	Grey.
Form	Dry, free-flowing powder.
Specific Gravity	1.7
Composition	Blend of cement, organic binders and fillers.
Product Code	366015 20kg x1
Packaging	20kg paper sack x1
Shelf life/storage	6 months when stored in the original unopened containers. Store under dry conditions between 5°C and 25°C.

Application Temp 5°C to 25°C

Working Time approx. 20 minutes after mixing at 20°C.

Drying Time 1.5-3 hours at 20°C (walk on time).

Compressive Strength at 28 days > 30N/mm²

Coverage approx. 1.7kg/m² at 1mm thickness.

To lay ceramic tiles, textile coverings:

3-4 hours (<10mm thickness)
24 hours (>10mm thickness)

To lay impervious floor coverings:

Approx. 24 hours for every 10mm thickness of smoothing compound at 20°C

Directions for use

IMPORTANT

Before using this Cementone Cempolay Deep refer to the relevant Health & Safety Data Sheet. Available at www.bostik.co.uk named as the code above.

Preparation

1. 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.
2. BS 5325 Code of Practice for installation of textile floor coverings.
3. BS 8203 Code of Practice for installation of resilient floor coverings.
4. Wear protective gloves, clothing and eyewear

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5. Ensure the floor temperature is above 5°C.
6. The freshly applied compound should be protected from rain, frost, high temperatures and conditions causing rapid drying.
7. DO NOT apply externally if temperatures are likely to drop below freezing within 7 days of application.
8. Ensure the temperature is above 5°C
9. Ensure the subfloor is clean, sound, dry and free from contaminants that may hinder adhesion, including surface hardeners, additives, oils, grease, adhesive residue etc.
10. Ensure there is an effective damp-proof membrane that conforms to BS 8203 : 1987
11. Prime porous surfaces with Cementone Rendabond PVA diluted with 4 parts water. Allow to dry before applying Cementone Cempolay.
12. Prime non-porous surfaces with undiluted Rendabond PVA and apply Cementone Cempolay while it is still tacky, usually about 30 minutes. If it has dried apply a further coat of Cementone Rendabond PVA.
13. Any cracks should be cleaned out and filled with an extended mix of Cementone Cempolay mixed to the 5mm to 15mm ratio or a suitable patch repair mortar.
14. 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.
15. Suitable for installations with fully commissioned underfloor heating, provided a surface temperature of 27°C is not exceeded. The heating must be switched off at least 48 hours before and after application.
16. Suitable under parquet/wood floors >5mm.

Mixing Ratio

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

Mixing

1. Accurately measure 3.5 litres of clean cold water into a suitable clean mixing container and gradually add 1x 20kg bag of 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.
2. Once a smooth lump free mixture has been achieved mix for a further 2 minutes.
3. Do not mix more compound than you can use within 15 minutes.
4. Do not re-temper or add further water.

Application

1. Pour the mixture onto the prepared sub-floor, as a continuous operation and allow the flow to obtain a smooth finish.
2. Spread evenly to the required thickness using a steel trowel.
3. Cementone Cempolay Deep can be applied from 5mm up to 50mm in one application.
4. Further finishing with a Cementone levelling compound is generally not required. However, any subsequent application is best performed as soon as the first layer is set for walking, but still damp.
5. Protect surface from damage prior to laying a floor covering.
6. Avoid application in high temperatures as this may result in rapid setting and poor flow. The rapid loss of water may increase the risk of cracking. Ideally a room temperature of 13 – 20°C should be maintained with a minimum floor temperature of 5°C.
7. Cementone Cempolay Deep is suitable for application by pumping

Drying Times

1. Under good site conditions Cementone Cempolay Deep will normally take foot traffic 2 to 4 hours after application (at 20°C). The walk on time and setting time will be delayed if the powder has been stored at

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temperatures below 10°C and/or when used on a cold floor.

2. 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

1. Tools should be cleaned with water immediately after use.
2. Whilst it is still wet, surplus adhesive must be removed from surrounds and tiled surfaces.
3. Remove bulk using rubber squeegee.
4. Remove the damp film uncured material using a damp cloth.



Stronger Bonds, Better Life

CONSTRUCTION PRODUCT REGULATION DECLARATION OF PERFORMANCE

No:

Product Description: **CEMPOLAY DEEP C/TONE 20KG**

Product Code: **366015**

Intended Use: **Cementitious Screed Material**

Manufacturer: **Bostik Ltd**
Contact Address: **Ulverscroft Road**
Leicester
LE4 6BW

System of Assessment: **System 4**

Harmonised Standard: **EN 13813:2002**

Declared Performance: **CT-C35-F5**

Essential Characteristics	Performance	Harmonised technical specification
Reaction to fire	F_{fl}	EN 13813:2002
Compressive Strength	>35 N/mm²	
Flexural Strength	>5 N/mm²	

The performance of the product 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: *Alison Jamieson*

Date: 5th June 2013

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Technical Data & COSHH (MSDS) sheets	01785 272625	01785 212962	stafford.gatehouse@bostik.com

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