

Date: 03 December 2013

Information Sheet No.: TDS00001

CEMENTONE CEMPOLAY ULTRA STRONG A CEMENT BASED SELF-LEVELLING COMPOUND

Cementone Cempolay is a protein-free self-levelling compound based on a blend of cements and organic binders. It is suitable for smoothing and levelling interior sub-floors prior to laying decorative floor coverings. It is also suitable for some exterior applications prior to laying ceramic tiles, slabs and natural stone.

Features

- Protein-free.
- Smooths and levels up 20mm thickness
- Trowels to a feather edge.
- For interior use.
- Suitable for use in hygiene and food preparation areas.
- Suitable for installations with underfloor heating.
- Suitable for external concrete surfaces such as balconies, patios, walkways etc. prior to the application of ceramic tiles.
- Suitable for use on domestic garage floors prior to over coating with a suitable floor paint.
- Suitable for patch repairing rough concrete domestic driveways & paths that are subject to foot & light rubber wheeled traffic.

Uses

- Concrete.
- Sand/Cement screeds.
- Unglazed ceramic tiles.
- Cementone Cempolay Ultra Strong can be extended for filling holes and forming sloping screeds (5% downward gradients).
- Not suitable for tarmac, vinyl, soft smoothing compound residue, floor prone to structural movement and adhesive residue.

Product Characteristics

Colour	Grey.
Form	Dry, free-flowing powder.
Specific Gravity	1.6
Composition	Blend of cement, organic binders and fillers.
Product Code	366008 25kg x1
Packaging	25kg 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.
Drying Time	2-3 hours at 20°C (walk on time)
Application Temp	5°C to 25°C
Working Time	approx. 15-20 minutes at 20°C
Coverage	approx. 3.2kg/m ² at 2mm thickness (25kg will cover approximately 7.5m ²). 32kg/m ² at 30mm thickness (25kg will cover approximately 0.75m ²).

Directions for use

IMPORTANT

Before using this Cementone Cempolay Ultra Strong 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
5. Ensure the floor temperature is above 5°C.

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- The freshly applied compound should be protected from rain, frost, high temperatures and conditions causing rapid drying.
- DO NOT apply externally if temperatures are likely to drop below freezing within 7 days of application.
- Ensure the temperature is above 5°C
- Ensure the subfloor is clean, sound, dry and free from contaminants that 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 Cementone Rendabond PVA diluted with 4 parts water. Allow to dry before applying Cementone Cempolay.
- 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.
- 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.
- 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 at least 48 hours before and after application. Cementone Cempolay Ultra Strong is not mixed with any product to extend it.

Mixing Ratio

- 5 litres of water to 25kg powder.
- Extended mix ratio. 4 litres of water to 25kg powder + 12.5kg of sharp sand (0-4mm).
- OR** 4 litres of water to 25kg powder + 12.5kg of granite chippings (3mm)

Mixing

- Add Cempolay to clean cold water according to the ratios above.
- If using volume ratios adjust as necessary to achieve the correct consistency.
- Stir vigorously until a smooth, creamy paste is achieved.
- Do not mix more compound than you can use in 15 minutes.
- When adding sand always add after gauging the powder. Sand MUST be dry.
- Do not re-temper or add further water.

Application

- Pour the mixture onto the prepared sub-floor, as a continuous operation.
- Spread evenly to the required thickness using a steel trowel.
- Cementone Cempolay Ultra Strong can be applied from 2 mm up to 20 mm in one application however when applying at greater than 10 mm it may be beneficial to extend the compound with sharp sand or granite chippings.
- Leave overnight before applying textile floor coverings and for 24 hours before laying impervious floor coverings.
- Ceramic tiles may be laid in as little as 3 hours, if a cement based adhesive is used, after application of the smoothing compound.
- Protect surface from damage prior to laying a floor covering.
- 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.

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Drying Times

1. Under good site conditions Cementone Cempolay will normally take foot traffic 2 to 3 hours after application (at 20°C). The walk on time and setting time will be delayed if the powder has been stored at 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.

Installation Times

1. To lay ceramic tiles approx. 3 hours at 20°C.
2. To lay impervious floor covering approx 24 hours for every 10 mm thickness of smoothing compound at 20°C.

3. Wood floors up to 10mm Approx 72 hours allow a further 24 hours for every 10mm thickness of smoothing compound.
4. Note: drying / covering times will be extended at lower 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 ULTRA C/TONE 25KG**

Product Code: **366008**

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-C20-F6**

Essential Characteristics	Performance	Harmonised technical specification
Reaction to fire	F_{fl}	EN 13813:2002
Compressive Strength	>20 N/mm²	
Flexural Strength	>6 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:

Date: 5th June 2013

PRODUCT DATA



FM 1696
BS EN ISO 9001:2008

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