



# Cempolatex 1 Pack

## LATEX MODIFIED SMOOTHING COMPOUND

Date: 16 April 2021

Fact Sheet No.: TDS00179

### YOUR SMART ADVANTAGES

- Flexible and rapid setting
- Suitable for use with underfloor heating
- Protein-free formulation

### USES

Bostik Cempolatex 1 Pack is a latex modified, protein-free smoothing compound. It has excellent bonding properties and good flexibility that will accommodate the movement of closely fitted suspended flooring. It is easy to apply and has good flow.

It is ideal for smoothing and levelling prepared concrete subfloors, sand/cement screeds, quarry tiles, rigid timber floors, stone, brick & terrazzo floors and asphalt floors. Bostik Cempolatex 1 Pack may also be used as a floor topping/concrete re-surfacer with the addition of Bostik SBR, and for patching up to 100mm depths.

It is suitable for use with warm water underfloor heating systems, provided a surface temperature of +27°C is not exceeded. It is not to be used as a wearing surface and should always be covered with a floor covering. For interior use only.

### PRODUCT CHARACTERISTICS

Colour	Grey
Form	Dry, free-flowing powder
Specific Gravity	1.6 approx.
Composition	Polymer modified cement-based compound
Product Codes	30812516 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 <sup>2</sup> per bag at 3mm depth Approx. 3m <sup>2</sup> per bag at 5mm depth (depending on the smoothness of the floor surface & application technique)
Gauging Liquid	Water
Application Thickness	3mm 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 covering: approx. 16 hours at +20°C Re-surfacing: 4 weeks before protective coating
Cleaning	Clean tools and equipment with warm, soapy water immediately after use

### DIRECTIONS FOR USE

**IMPORTANT:** Before using Bostik Cempolatex 1 Pack, 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 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 for 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, bitumen, additives and adhesive residues must be completely removed.
4. Any deep depressions (20mm to 25mm) in the floor must be cleaned out and filled using a mixture of Bostik Cempolatex 1 Pack and dry, sharp sand. Trowel to a smooth finish. Allow 24 hours before proceeding, 48 to 72 hours if more than 50% of the floor is patched.
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.

### Underfloor heating systems:

6. Warm water underfloor heating systems must be switched off for 48 hours before installation. Wait 48 hours after installation before gradually turning up underfloor heating.

NOTE: Bostik Cempolatex 1 Pack is only suitable for use with underfloor heating systems when mixed and applied as a smoothing compound. It is not suitable when used as a filling compound, floor topping, or when used with asphalt and contaminated surfaces.

### Wooden surfaces:

7. Bostik Cempolatex 1 Pack can be applied over mosaic and wood blocks directly bonded to solid floors when there is an effective damp-proof membrane in, or beneath the subfloor.

8. Bostik Cempolatex 1 Pack is suitable for use on stiff suspended floors constructed of chipboard, plywood or tongue and groove boards, provided there is adequate ventilation under the floor.
9. The timber must be a minimum of 18mm thick and screwed down at 300mm centres. Do not use on floors with a flexible surface, e.g. plain edge boards.
10. Do not use on boarded floors where joists are fixed directly to concrete because of lack of ventilation and consequent risk of decay.

## PRIMING

11. Prime very porous surfaces or extremely dry surfaces with Bostik Cempolay Universal Primer, diluted with 2 parts water. Allow to dry before applying Bostik Cempolatex 1 Pack.
12. Prime non-porous surfaces with undiluted Bostik Cempolay Universal Primer and apply Bostik Cempolatex 1 Pack.

## MIX RATIOS

### Smoothing compound 3mm to 5mm depth:

- 5 litres of water to 25kg Bostik Cempolatex 1 Pack.

### Filling compound for depressions 20mm to 25mm deep:

- 5 litres of water to 25kg Bostik Cempolatex 1 Pack + 25kg of dry, sharp sand.

### Floor topping & patching compound for depressions 25mm to 100mm deep:

- 3.5 litres of water to 1.5 litres of Bostik SBR to 25kg Bostik Cempolatex 1 Pack + 25kg of dry, sharp sand.

### Asphalt and adhesive contaminated surfaces:

- 3.5 litres of water to 1.5 litres of Bostik SBR to 25kg Bostik Cempolatex 1 Pack.

## MIXING & APPLICATION DEPTH

13. According to the mix ratios above, pour clean, cold water into a clean mixing bucket. Gradually add Bostik Cempolatex 1 Pack powder to the water, whilst continually mixing with an electric drill and mixing paddle until a smooth, lump-free mixture is obtained.
14. Do not mix more compound than you can use in 15 to 20 minutes. The mixture will remain workable for approximately 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.

15. When used as a smoothing compound, Bostik Cempolatex 1 Pack can be applied from a minimum depth of 3mm, up to 5mm in a single application.

### Bulked out compound:

16. When bulked out to use as a filling compound, floor topping or patching compound, the product should be bulked out with sharp sand. The sand must be dry and added after mixing the water and powder together. Use

the mix ratios and mixing process detailed above.

NOTE: Bulked out compound is not suitable for use with underfloor heating systems. It is only suitable for use with underfloor heating systems when mixed and applied as a smoothing compound.

#### APPLICATION

##### Smoothing compound:

17. Pour the mixed material onto the prepared subfloor in a continuous operation and allow to flow.
18. Using a steel screeding trowel, spread evenly to the required depth and smoothness.
19. On difficult surfaces, such as quarry tiles, pour some of the mixed material onto the prepared subfloor and apply a thin scrape coat using a plasterer's trowel. Immediately pour and spread the rest of the mixture onto the subfloor in a continuous operation to a minimum of 3mm depth and a maximum depth of 5mm.
20. Protect surface from foot traffic prior to laying a floor covering. Ensure the compound is fully dry before applying a floor covering.

##### Filling compound:

21. For depressions 20mm to 25mm deep, add dry, sharp sand. See mix ratios above. Trowel to a smooth finish.
22. If 50% or more of the area is patched, leave for 48 to 72 hours before proceeding.

##### Patching compound:

23. For depressions 25mm to 100mm deep, modify mix with Bostik SBR. See mix ratios above.
24. Prime area to be patched with Bostik Cempolay Universal Primer diluted in the ratio 1 part Bostik Cempolay Universal Primer to 2 parts water. Brush in well.
25. Allow to dry for approx. 1 hour.
26. Pack the hole with 10mm to 20mm aggregate (pea gravel), leaving a 5mm gap at the surface.
27. Pour the SBR modified Bostik Cempolatex compound into the aggregate until all the voids are filled, so it just covers the aggregate.
28. Allow to set (approx. 4 hours).
29. Finish by levelling off with a further layer of SBR modified Bostik Cempolatex 1 Pack.

##### Asphalt and subfloors contaminated with sound adhesive residue:

30. All adhesive residues should be removed where possible. Any remaining residue must be firmly bonded.
31. Modify the mix with Bostik SBR. See mixing ratios above.

##### Floor topping on concrete or screed surfaces:

32. Modify mix with Bostik SBR. See mixing ratios above.
33. Prime area with Bostik Cempolay Universal Primer

diluted in the ratio 1 part Bostik Cempolay Universal Primer to 2 parts water. Brush in well.

34. Allow to dry for approx. 1 hour.
35. Apply the SBR modified Bostik Cempolatex 1 Pack compound and allow to dry. Protect from damage.

#### DRYING TIMES

36. 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.
37. Application in high temperatures may result in rapid setting and poor flow. The rapid loss of water may increase the risk of cracking.
38. The drying time depends on how absorbent the subfloor is, the air humidity and both the ambient & floor temperatures.
39. Under good site conditions, Bostik Cempolatex 1 Pack will normally take foot traffic after approx. 2 to 4 hours. Leave overnight, or a minimum 16 hours before applying floor coverings. 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.
40. The working and drying times of the compound will be reduced in higher temperatures and increased in lower temperatures.

#### CLEANING

41. 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

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](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 Cempolatex 1 Pack, available at [www.bostik.com/uk](http://www.bostik.com/uk).

BOSTIK HOTLINE

Smart help +44 (0) 1785 272625



**CONSTRUCTION PRODUCT REGULATION  
DECLARATION OF PERFORMANCE**

**No: TDS00179**

Product Description: **Bostik Cempolatex 1 Pack**  
Product Code: **5011734036659**  
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-C16-F6**

Essential characteristics	Performance	Harmonised technical specification
Compressive strength	≥16N/mm <sup>2</sup>	<b>EN 13813:2002</b>
Flexural strength	≥6N/mm <sup>2</sup>	
Reaction to fire	<b>F</b>	

The performance of the product Bostik Cempolatex 1 Pack 5011734036659 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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