



Cempolates 1 Pack

LATEX MODIFIED SELF-LEVELLING COMPOUND

TECHNICAL SHEET NO: TDS02220 08/05/2024

SMART ADVANTAGES

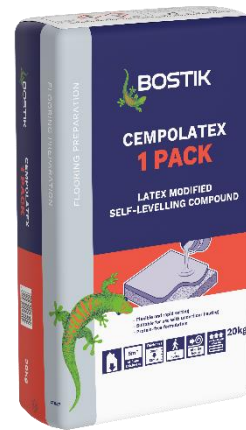
- Flexible and rapid setting
- Suitable for use with underfloor heating
- Protein-free formulation

DESCRIPTION

Bostik Cempolates 1 Pack is a latex modified, protein-free smoothing and levelling compound. It has excellent bonding properties and good flexibility that will accommodate the movement of suspended timber floor panels. It is easy to apply and has good flow properties.

It is ideal for smoothing and levelling prepared concrete subfloors, sand/cement screeds, stone, calcium sulphate-based screeds, mastic asphalt, flooring grade plywood and firmly bonded unglazed ceramic, terrazzo & quarry tiles. It is not suitable for use over existing adhesive or water-soluble residues.

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.



TECHNICAL CHARACTERISTICS

Colour	Grey
Form	Dry, free flowing powder
Composition	Polymer modified cement-based compound
Application temperature	+5°C to +27°C
Gauging liquid	Water
Application thickness	3mm to 12mm
Working times	Up to 20 minutes after mixing (depending on ambient temperature and humidity)
Drying times	Light foot traffic: approx. 4 hours Loose lay floor coverings: approx. 16 hours Bonded floor coverings: approx. 24 hours Ceramic tiles: approx. 16 hours Textile coverings: approx. 16 hours (3mm thickness at +20°C, depending on application thickness, ambient temperature and humidity)
Compressive strength	Typically, 20N/mm ² after 28 days
Flexural strength	Typically, 6N/mm ² after 28 days

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COVERAGE

- Approx. 5m² per bag at 3mm thickness
- Approx. 2.5m² per bag at 5mm thickness
- Approx. 1m² per bag at 10mm thickness (depending on the smoothness and absorbency of the floor surface)

APPLICATION

IMPORTANT: Before using Bostik Cempolatex 1 Pack, refer to the relevant Health & Safety Data Sheet, available at www.bostik.com/uk.

All phases of the application should comply with the current editions of:

- BS 8102 Code of practice for protection of below ground structures against water ingress.
- 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 installation of flooring of wood and wood-based panels.

Ensure the correct PPE is worn during use.

PREPARATION

- Ensure the subfloor is clean, sound and dry (<75%RH), of adequate tensile & compressive strength, free from laitance, cracks, structural defects and contaminants that may prevent adhesion (e.g., dust, oil, grease, paint, plaster, polish, some curing compounds, surface hardeners, additives and adhesive residues must be completely removed), and conforms to BS 8204 code of practice.
- Any cracks or holes in the floor must be cleaned out and filled with Bostik Rapid Repair Mortar. Allow to completely dry before applying Bostik Cempolatex 1 Pack.
- The temperature of the floor and application environment must be stable and maintained between +5°C and +27°C throughout the application and drying of the compound.

UNDERFLOOR HEATING

- Bostik Cempolatex 1 Pack can be used on substrates containing warm water underfloor heating systems. The system must be switched off 48 hours prior to, during and for 48 hours post application. To prevent rapid dehydration, wait 48 hours after installation before gradually turning up underfloor heating.
- NOTE: Bostik Cempolatex 1 Pack is only suitable for use with warm water underfloor heating systems when mixed and applied as a self-levelling compound. It is not suitable when used as a filling compound, floor topping, or when used with mastic asphalt and contaminated surfaces.
- For electrical radiant underfloor heating systems, please contact Technical Services.

WOODEN SURFACES

- 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.

- Bostik Cempolatex 1 Pack is suitable for use on stiff suspended floors constructed of flooring grade plywood, provided there is adequate ventilation under the floor.
- The timber substrate should be solidly fixed and clean, with open joints over laid with flooring grade plywood. The timber must be installed in accordance with the manufacturers guidance, be well fixed and free from movement.
- The plywood must be a minimum of 15mm thick and screwed down at 150mm centres. Do not use on floors with a flexible surface, e.g., plain edge boards.
- Ensure the plywood will take the weight of the compound, adhesive, floor covering and in-house loading without any risk of deflection.
- Because of lack of ventilation and consequent risk of decay, do not use on boarded floors where joists are fixed directly to concrete.

PRIMING

- When applying Bostik Cempolatex 1 Pack, the subfloor must be primed prior to the application of the compound. See table below, refer to separate technical data sheets for primer application and drying times.
- Priming will minimise rapid absorption and will reduce the risk of pin holing and extend the working time to result in the ideal surface finish.

Porous substrates	Bostik Cempolatex Universal Primer (diluted 1 : 2 with water)
Dense/non-porous substrates, including epoxy membranes	Undiluted Bostik Cempolatex Universal Primer (for applications above 10mm contact Technical Services)
Calcium sulphate-based screeds	Bostik Cempolatex Universal Primer (diluted 1 : 3 with water) Once dry, apply a second coat of primer (diluted 1 : 1 with water) (for applications up to 10mm max)
Flooring grade plywood (must be mechanically fixed)	Bostik Cempolatex Universal Primer (diluted 1 : 1 with water)
Mastic asphalt	Undiluted Bostik Cempolatex Universal Primer (for applications up to 5mm max)

MIXING & APPLICATION THICKNESS

- Pour 4 litres of clean, cold water into a clean mixing bucket.
- Gradually add the 20kg bag of 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. This will normally be achieved after 2 minutes. Do not under mix. Optimal results can be achieved by allowing the mixed material to stand/mature for 1 minute and then mixing again for 1 minute.
- Make sure the mixing bucket is free from any unmixed material on the sides and the base.
- Note: the addition of too much water may result in separation of the compound.
- When used as a self-levelling compound, Bostik Cempolatex 1 Pack can be applied from 3mm to 12mm in a single application - 10mm maximum total thickness on sound &

primed calcium sulphate-based screeds and 5mm maximum total thickness on sound & primed mastic asphalt. Contact Technical Services for further details.

- 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.

Bulked out compound:

- When bulked out to use as a patching compound (from 12mm up to 25mm), the product should be bulked out with dry coarse sand or aggregate.
- 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 self-levelling compound.
- Pour 4 litres of clean, cold water into a clean mixing bucket.
- Gradually add the 20kg bag of 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. Do not under mix.
- To the mixed unit add 5kg of dry coarse sand/aggregate (0mm to 6mm).
- The sand/aggregate must be dry and added after mixing the water and powder together.
- The addition of sand will extend set times and reduce the workability of the mix. If the mix begins to stiffen before it has been spread, it must be discarded. Do not re-temper or add further water.

APPLICATION

- Pour the mixed material onto the prepared subfloor in a continuous operation.
- Using a steel trowel, apply Bostik Cempolatex 1 Pack evenly to the required thickness.
- Use a spiked roller to deaerate the compound and smooth out any trowel lines whilst the compound is still fluid.
- Protect surface from traffic prior to laying a floor covering. Ensure the compound is fully dry before applying a floor covering.

DRYING TIMES

- Drying times may vary depending upon site conditions, substrate type and installation environment.
- The drying time depends on how absorbent the subfloor is, the air humidity and both the ambient & floor temperatures.
- Thicker applications will prolong overall drying times.
- Based on good ambient conditions of +20°C and 3mm thickness, the compound can be laid directly over after the following times:

Light foot traffic	4 hours approx.
Loose lay floor coverings	16 hours approx.
Bonded floor coverings	24 hours approx.
Ceramic tiles	16 hours approx.
Textile coverings	16 hours approx.

Other floor coverings	Contact Technical Services
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- The working and drying times of the compound will be reduced in higher temperatures and increased in lower temperatures.

CLEANING

- Clean tools and equipment with warm, soapy water immediately after use. Remove surplus compound from surfaces whilst it is still wet. Dried and hardened compound can only be removed mechanically.

STORAGE

- 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.

PRECAUTIONS IN USE

Do not use as a substitute for a DPM. An effective membrane is required to prevent water entering the system. Protect surface from foot traffic prior to installing a floor covering. Ensure the compound is fully dry before installing a floor covering. During drying, protect the freshly applied product from strong sunlight and through draughts. Protect from rain and frost. Do not force dry the compound. Application in high temperatures may result in rapid setting and poor flow. The rapid loss of water may increase the risk of cracking.

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 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.

PACKAGING		
Product codes	30622808	20kg bag

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