



MC250 Vitri-Flex

RAPID SET FLEXIBLE WALL & FLOOR TILE ADHESIVE

TECHNICAL SHEET NO: TDS01593 19/12/2024

SMART ADVANTAGES

- Enhanced adhesion to fully vitrified, porcelain, ceramic and stone tiles
- Can be upgraded to a S2 class, with the addition of AP250 Flexibond
- Suitable for installations with limited vibrations

DESCRIPTION

Bostik MC250 Vitri-Flex is a cement based rapid setting adhesive. It is suitable for use with, ceramic, mosaics, porcelain, natural stone, quarry, slate, granite, and terrazzo. Waterproof and frost resistant, it is suitable for interior and exterior use.

Bostik MC250 Vitri-Flex can be applied directly onto most common substrates including sand/cement screeds, plasterboard, tile backerboard, sealed plaster and existing firmly bonded tiles.

Plywood and other wood-based sheets or boards should not be used for direct tiling. An intermediate layer such as a Bostik Decoupling Membrane or Bostik Flexible Tanking System should be used. Tile backer boards are also suitable.

When fully cured Bostik MC250 Vitri-Flex is suitable for permanently wet areas such as showers and swimming pools.

It is also suitable for use with most domestic underfloor heating systems and can be used for thin and thick bed applications to a maximum depth of 12mm.



TECHNICAL CHARACTERISTICS

Colour	Grey & white
Form	Powder
Composition	Blend of cement, polymers and selected fillers
Application temperature	+5°C to +35°C
Gauging liquid	Water
Application thickness	2mm to 12mm
Pot life	Approx. 30 minutes at 20°C (depending on ambient temperature and humidity) Set time: 2-3 hours
Drying times	Grouted: after 2-3 hours Foot traffic: 2-3 hours (+20°C, depending on application thickness, ambient temperature and humidity)
UKCA/ CE classification	C2FT S1

COVERAGE

- Approx. Up to 7m² per bag (depending on the smoothness and absorbency of the surface)

APPLICATION

IMPORTANT: Bostik MC250 Vitri-Flex, refer to the relevant Health & Safety Data Sheet, available at www.bostik.com/uk.

PREPARATION

- Ensure substrates are clean, dry, sound, flat, strong and rigid enough to support tiles, free from cracks, structural defects and contaminants that may prevent adhesion (e.g., dust, oil, grease, paint, varnish, wax polishes, sealers, loose materials and other surface contaminants).
- The temperature of the application environment must be stable and maintained between +5°C and +35°C throughout the application and drying of the tile adhesive.
- If using over existing ceramic tiles, it is advisable to clean and prime with a suitable Bostik Primer. Re-fix tiles where loose.
- Remove any loose surface coverings.

FLOOR TILING PREPARATION

- New cementitious screeds must be sufficiently dry. It is recommended a minimum of 3 weeks old and new concrete a minimum of 6 weeks before receiving tiling products.
- Gypsum or anhydrite-based screeds must be thoroughly dry (0.5% moisture content by weight or <75%RH) before covering.
- Where an S2 adhesive is required, mix Bostik MC250 Vitri-Flex with Bostik AP250 Flexibond.

PLYWOOD

- If tiling over plywood an intermediate layer such as a Bostik Decoupling Membrane or Bostik Flexible Tanking System should be used. Tile backer boards are also suitable.

UNDERFLOOR HEATING

- It is advisable to encapsulate the heating elements in a suitable Bostik smoothing compound.
- Bostik MC250 Vitri-Flex can be used on substrates containing warm water underfloor heating systems. The system must be switched off 48 hours prior to, during and for at least 7 days post application. After tiling, when the heating is turned on, ensure that the temperature is again increased at the manifold by no more than 5°C per 24 hours up to 25°C. This is to prevent delamination and cracking caused by thermal shock. Seek underfloor heating manufacturer's guidance.
- If using over underfloor heating elements, apply the adhesive according to the manufacturer's instructions. The system must be switched off 48 hours prior to, during and for at least 7 days post application. After tiling, when the heating is turned on, ensure that the temperature is again increased by no more than 5°C per 24 hours up to 25°C. This is to prevent delamination and cracking caused by thermal shock. Seek underfloor heating manufacturer's guidance.

WALL TILING PREPARATION

- Fill any holes or cracks in the walls.
- If tiling onto plaster, primer with a suitable Bostik primer and allow to dry for one hour. The plaster must be strong enough to take the complete weight of the subsequent tiling and adhesive. The maximum weight the plaster can take is 20kg per 1m².

- If tiling onto plasterboard, ensure the substrate has been primed with a suitable Bostik primer. The maximum weight the plasterboard can take is 32kg per 1m².

PRIMING

- Priming is recommended on certain substrates as it will aid adhesion.

Wall Substrate	Priming
Porous/dusty surfaces	AP250 Flexibond (diluted 1 : 2 with water)
Plaster	Contact Bostik Technical Services
Existing ceramic tiles	Contact Bostik Technical Services
Floor Substrate	
Porous/dusty surfaces*	AP250 Flexibond (diluted 1 : 2 with water)
Calcium sulphate- based screed	Contact Bostik Technical Services

*The surface needs to be vacuumed to ensure loose particles are removed.

MIXING

- Pour 4.4L of clean cold water into a clean mixing bucket. Gradually add the 20kg bag of Bostik MC250 Vitri-Flex until a thick creamy consistency is achieved.
- Once the product is mixed it can set within 30 minutes (depending on drying conditions). The mixture is ready for use immediately. No water should be added after the original mixing.

FIXING

- Spread the adhesive evenly using a notched trowel at a depth of 3mm. On uneven surfaces the adhesive may be used to a maximum depth of 12mm.
- Back buttering is recommended for larger format tiles.
- A solid bed of adhesive must be used when fixing tiles.
- Fix tiles using a slight twisting action. Occasionally lift a tile to ensure the adhesive has completely covered the reverse of the tile.

GROUTING

- Allow 2 hours after application before grouting. For best results use a Bostik grout
- Follow the tile manufacturer's instructions for protecting and sealing the tiles before and after grouting.

CLEANING

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

STORAGE

- Store and transport securely. Store for up to 12 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 draughts, frost, damp, condensation, and dew.

PRECAUTIONS IN USE

MC250 Vitri-Flex – for any substrates not mentioned in this Technical Datasheet, contact Bostik Technical Services.

Do not tile onto substrates in excessively hot conditions, or when the temperature is less than +5°C. Drying time will be extended if the product is applied on to non-absorbent surfaces or not in accordance with the instructions. The mix ratios and temperatures are provided as guidance.

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 MC250 Vitri-Flex Adhesive, available at www.bostik.com/uk.

PACKAGING

Product codes	30811607 30615554	20kg bag – Grey 20kg bag - White
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Telephone:	01785 272625
Sales:	customer.service@bostik.com
Technical advice:	technical.service@bostik.com
Safety data sheets:	sds.box-eu@bostik.com

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Bostik Ltd
Common Road,
Stafford, ST16 3EH, UK
Phone: +44 (0)1785 272625
www.bostik.com/uk

BOSTIK HOTLINE

Smart help +44 (0)1785 272625



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