TECHNICAL DATA SHEET

MoreBond Standard C2

01/01/24

Kelmore's MoreBond Standard C2 is a polymer modified, flexible, standard setting, cementitious tile adhesive for walls and floors. This smooth, slump-free adhesive has enhanced adhesion ensuring numerous types of tiles, such as porcelain, ceramic and most natural stone can be confidently fixed to a wide range of backgrounds. Allowing bed depths up to 15mm, MoreBond Standard C2 has a long pot life of 4 hours and an excellent open time of 40 minutes, whilst still being set and ready for grouting after 16 hours. This adhesive is suitable for interior and exterior use, as well as in wet areas, including swimming pools. MoreBond Standard C2 has been manufactured to the highest of standards using unique technologies, extensive knowledge and outstanding raw materials. When compared to the production of traditional cementitious adhesives, this results in a significant reduction in CO₂ emissions.



MoreBond Standard C2

| Classifi | cation (EN 12004) | C2 TE | | | |
|--------------------|---|-----------------------------------|--|--|--|
| Pack Siz | ze | 20kg | | | |
| Colour | | White | | | |
| Water r | equired per 20kg bag | Approximately 5.0 litres | | | |
| | tion Temperature I background) | ≥ 5°C | | | |
| Bed Thi | ckness | Up to 15mm | | | |
| @20°C | Set Time (Grout After) Pot Life Open Time | 16 hours 4 hours 40 minutes | | | |
| Consun bed thic | nption per mm ckness | Approximately 1.25kg /m² | | | |
| | rature Resistance adhesive) | -30°C to 90°C | | | |

| Areas of Use | | | | | | | |
|--------------|----------|-----------|------------|--|--|--|--|
| Walls | Interior | Wet Areas | Domestic | Heated Screeds | | | |
| Floors | Exterior | Dry Areas | Commercial | Electric Underfloor Heating (on solid bases) | | | |

| Suitable Tiles | | | | | | | |
|----------------|---------|--|----------|-------------|--|--|--|
| Porcelain | Ceramic | Natural Stone (non-moisture sensitive) | Terrazzo | Brick Slips | | | |





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| Suitable Wall Backgrour | PRIMER REQUIRED | | | |
|------------------------------------|---|----------------|-------------------------|--------------------------------|
| A Cement:Sand A Con Render Bloc | crete kwork Plaster (Finish Coat) | A Plasterboard | A Tile Backer Boards | Prime <i>More</i> Universal |

| Render | Bloc | kwork | (Finish Coat) | Board | | Boards | Universal | | |
|--|---|--------------------|--|---|---------------------------|--------|----------------------|--|--|
| | | | | | | | | | |
| Suitable Floo | Suitable Floor Backgrounds PRIMER REQUIRED | | | | | | | | |
| | A Cement:Sand Screed (inc. Heated) A Concrete (on solid bases) | | | | | | | | |
| B Asphalt (Flooring Grade) | sting Ceramic, Por nd Natural Stone Til n solid bases) | | B Existing Vinyl Flooring (on solid bases) | | Prime <i>More</i> Grip | | | | |
| Calcium Sulphate/Anhydrite Screed (inc. Heated) | | | | | | | Prime <i>More</i> CS | | |
| A Prime with diluted 1:3 porosity of diluted co | More Universal ding on the additional ed. | neat, undiluted ur | | rime with one neat, ndiluted coat of rime <i>More</i> CS. | | | | | |
| The primer must be allowed to dry before applying tile adhesive. | | | | | | | | | |

BACKGROUND AND SURFACE PREPARATION

Backgrounds must be sufficiently dry and strong enough to carry the total weight being applied. All surfaces must be clean, sound, flat and free from contaminants that could inhibit adhesion, such as dust, dirt, oil, grease, laitance, and curing agents. Moisture sensitive backgrounds in wet locations will need protecting using Kelmore's waterproofing systems.

Guidance notes on suitable wall backgrounds

Prime the following backgrounds with one coat of Prime More Universal diluted 1:3 by volume with clean water (1 part Prime More Universal to 3 parts clean water).

*Depending on the porosity of the background, additional diluted coats of Prime*More* Universal may be required.

All priming coats must be allowed to dry before applying additional coats and before applying tile adhesive.

*CEMENT:SAND RENDER: Must be true and firmly bonded to the background. It should be prevented from rapid drying before being allowed to air dry in good conditions for a minimum of 2 weeks.

*CONCRETE BLOCKWORK: Must be true and flat and be allowed to dry for a minimum of 6 weeks.

PLASTER: Tiles should be fixed only to a finish coat of plaster. Ensure it is dry, sound, free from any loose or weak material and well adhered. If a backing coat as well as a finish coat has been applied, this must be allowed to dry for a minimum of 4 weeks. Plaster that has been overly trowelled should always be brushed down with a stiff brush. Maximum permitted weight when tiling on plaster is 20kg/m^2 .

PLASTERBOARD: Boards fixed to timber studwork must be of sufficient thickness, securely fixed and rigid. Where boards are directly bonded to solid walls, allow the board adhesive to fully set before tiling. Maximum permitted weight when tiling onto bare plasterboard is 32kg/m².

*TILE BACKER BOARDS: Ensure the boards are installed as instructed by the manufacturer. Boards fixed to timber studwork must be of sufficient thickness, securely fixed and rigid. Where boards are directly bonded to solid walls, ensure the adhesive has fully set and that any mechanical fixings, as instructed by the manufacturer, have been used. Proprietary boards will have varying weight limits - check with the manufacturer.



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Guidance notes on suitable floor backgrounds

Prime the following backgrounds with one coat of Prime More Universal diluted 1:3 by volume with clean water (1 part Prime More Universal to 3 parts clean water).

*Depending on the porosity of the background, additional diluted coats of Prime*More* Universal may be required.

All priming coats must be allowed to dry before applying additional coats and before applying tile adhesive.

*CEMENT:SAND SCREED: Allow newly installed screeds to dry for a minimum of 3 weeks. Direct fixing of agglomerate and some natural stone tiles will require extended drying times. For preparation and drying times of proprietary cementitious screeds, follow the guidance of the manufacturer.

*HEATED CEMENT:SAND SCREED: New heated screeds must be commissioned from 3 weeks after screed installation and before work commences. The screed should be heated slowly at a maximum rate of 5°C per day until the maximum operating temperature (as recommended by the heating manufacturer) is reached. Hold this temperature for 3 days before allowing the screed to cool. The underfloor heating should be turned off or in cold weather run so that the screed is held at a maximum 15°C whilst tiling commences. All proprietary cementitious screeds should be commissioned and prepared in accordance with the recommendations of the screed manufacturer.

*CONCRETE: Allow new concrete to cure before being subjected to continuous air drying in good conditions for a minimum of 6 weeks. Power floated concrete should be mechanically prepared by suitable means to provide a clean, sound, micro-textured, dust free surface.

*TILE BACKER BOARDS: Ensure the boards are installed as instructed by the manufacturer and that they are securely fixed to suitable, prepared, solid bases. The adhesive used to fix the boards to the solid base must be allowed to fully set before commencing tiling.

Prime the following backgrounds with one neat, undiluted coat of Prime*More* Grip. Allow the primer to dry before applying tile adhesive.

FLOORING GRADE ASPHALT: Must be hard, sound and firmly adhered.

EPOXY DPM: Must be a flooring grade that is compatible with cementitious products. Ensure that it is hard, sound and firmly adhered.

EXISTING CERAMIC, PORCELAIN, AND NATURAL STONE TILES: Must be in good condition, free from contaminants and well bonded. Ensure the existing structure can take the additional weight of the new tiling.

EXISTING VINYL FLOORING: Only hard vinyl can be tiled over (cushion vinyl is not suitable and will need to be removed). Ensure it is in good condition, free from contaminants and well bonded.

Prime calcium sulphate/anhydrite screeds with one neat, undiluted coat of PrimeMore CS. Allow the primer to dry before applying tile adhesive.

CALCIUM SULPHATE/ANHYDRITE SCREED:

All laitance and surface contaminants must be completely removed. The screed must be confirmed adequately dry, no greater than 85% Relative Humidity (RH).

HEATED CALCIUM SULPHATE/ANHYDRITE SCREED: All laitance and surface contaminants must be completely removed. New heated screeds must be commissioned from 7 days after screed installation and before work commences. The screed should be heated slowly and in accordance with the recommendations of the screed manufacturer. Ensure the moisture content of the screed is no greater than 85% Relative Humidity (RH).

ADDITIONAL INFORMATION

- It is recommended that electric underfloor heating cables/mats are encased within a Kelmore levelling and smoothing compound. The compound must be suitable for use with the background/base to which the heating system has been fitted.
- After completing installations on backgrounds incorporating underfloor heating, the heating system should not be run for 10 days. Following this period, the floor temperature must be gradually raised to its optimal operating temperature.



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Mixing

A 20kg bag of MoreBond Standard C2 White should be mixed with approximately 5.0 litres of clean, cold water. The amount of water used in the initial mixing can be adjusted slightly to obtain the optimum adhesive consistency for the specific application but must always remain slump-free.

Pour the water into a clean bucket before gradually adding the powder. Mix thoroughly until a smooth, creamy, slump-free consistency is achieved. To maximise the pot life, open time and workability, allow the mixed adhesive to stand for 2 minutes then re-mix briefly before use.

Application

MoreBond Standard C2 can be used up to 15mm thick. Apply the mixed adhesive to the wall or floor before using a notched trowel to serrate consistent, straight ribs of adhesive. Bed in the tiles within the open time ensuring good contact with the adhesive. The adhesive coverage behind the tile must be sufficient for the given application and specific tile being fixed. Any adhesive that forms a skin must be removed and fresh adhesive re-applied.

Where solid bed fixing is required, as far as possible the adhesive under the tile should be free of voids and fully supported. To achieve this, in addition to trowelling the background, the tile may also require back buttering or trowelling.

Clean any adhesive from the tile face and grout joints as work proceeds and before the adhesive has set.

Coverage

Will vary dependent on the flatness of the background, the profile of the tile back and the adhesive bed thickness. To cover 1m², approximately 1.25kg of powder will be required for every mm thickness of solid bed adhesive. This equates to the following approximate coverage per 20kg bag:

| Adhesive Thickness | 1.5mm | 2mm | 2.5mm | 3mm | 4mm | 5mm |
|----------------------|--------------------|-----|-------------------|-------------------|-----|-------------------|
| Approximate Coverage | 10.6m ² | 8m² | 6.4m ² | 5.3m ² | 4m² | 3.2m ² |

Grouting

Allow the adhesive to set before grouting using a suitable Kelmore grout. More Bond Standard C2 has been formulated to set in 16 hours when tested to the industry standard temperature of 20°C. Please be aware that higher temperatures will shorten the set time and lower temperatures will extend the set time.

NOTES: All cementitious adhesives should only be used when the temperature (air and background) is 5°C or above. If temperatures drop below 5°C then the chemical reaction required for cement to set is impeded, dramatically slowing the setting process. This will only return to normal when temperatures rise. Additionally, if the temperatures drop below freezing before the adhesive has set, then the integrity and performance of the adhesive will be compromised.

Where temperatures are in excess of 30°C, the set time of the product will be accelerated significantly, potentially making it difficult to use. When tiling must be undertaken in higher temperatures, every effort should be made to ensure the temperature of the air, background, water and products are kept as cool as possible.

CLEANING: All tools should be cleaned with water after use and before the product sets.

HEALTH AND SAFETY: For detailed information, please refer to and follow the advice stated on the SDS (Safety Data Sheet) which can be accessed on our website – www.kelmore.co.uk or alternatively by contacting Kelmore Ltd.

STORAGE AND SHELF LIFE: MoreBond Standard C2 must be stored in unopened packaging, off the ground, and in cool, dry conditions. If stored in this way, the shelf life of this product is 12 months.

BS 5385, Parts 1-5: MoreBond Standard C2 should be used in conjunction with work carried out under the British Standard Code of Practice for Wall and Floor Tiling.

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