

# TECHNICAL DATA SHEET

# MoreBond Standard C2

25/03/26

A standard setting, flexible, cementitious wall and floor tile adhesive

## Key Features

- Polymer modified formulation provides flexibility and increased adhesion
- Use to fix various types of tiles, including porcelain, ceramic, and natural stone
- Formulated for use on a wide range of backgrounds, including heated screeds



## Technical Information

|  |  |                                   |
|--|--|-----------------------------------|
| Classification (EN 12004)                    | C2 TE  |                                   |
| Pack size                                    | 20kg   |                                   |
| Colour                                       | White  |                                   |
| Water required per 20kg bag                  | Approximately 5.0 litres   |                                   |
| Application temperature (air and background) | ≥ 5°C  |                                   |
| Bed thickness                                | Up to 15mm   |                                   |
| @20°C  | Grout after<br>Pot life<br>Open time                             | 16 hours<br>4 hours<br>40 minutes |
| Consumption per mm bed thickness             | Approximately 1.25kg /m <sup>2</sup>                             |                                   |
| Temperature resistance (cured adhesive)      | -30°C to 90°C  |                                   |
| VOC emissions                                | Very low - Conforms to Eurofins Indoor Air Comfort Gold criteria |                                   |

## Areas of Use

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

## Suitable Tiles

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

## 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 impair adhesion, such as dust, dirt, oil, grease, laitance, and curing agents. Moisture sensitive backgrounds in wet areas will need protecting using Kelmore's waterproofing systems.

| Suitable Wall Backgrounds   |                             |                                |                       |                             | PRIMER REQUIRED            |
|-----------------------------|-----------------------------|--------------------------------|-----------------------|-----------------------------|----------------------------|
| <b>A</b> Cement:Sand Render | <b>A</b> Concrete Blockwork | <b>A</b> Plaster (Finish Coat) | <b>A</b> Plasterboard | <b>A</b> Tile Backer Boards | <b>PrimeMore Universal</b> |

| Suitable Floor Backgrounds   |                    |  |   | PRIMER REQUIRED            |
|--|--------------------|--|---|----------------------------|
| <b>A</b> Cement:Sand Screed (inc. Heated)  |                    | <b>A</b> Concrete  | <b>A</b> Tile Backer Boards (on solid bases)                  | <b>PrimeMore Universal</b> |
| <b>B</b> Asphalt (Flooring Grade)  | <b>B</b> Epoxy DPM | <b>B</b> Existing Ceramic, Porcelain, and Natural Stone Tiles (on solid bases) | <b>B</b> Existing Vinyl Flooring (on solid bases)             | <b>PrimeMore Grip</b>      |
| <b>C</b> Calcium Sulphate/Anhydrite Screed (inc. Heated)   |                    |  |   | <b>PrimeMore CS</b>        |
| <b>A</b> Prime with one coat of PrimeMore Universal diluted 1:3 with water. Depending on the porosity of the background, additional diluted coats may be required. |                    | <b>B</b> Prime with one neat, undiluted coat of PrimeMore Grip.                | <b>C</b> Prime with one neat, undiluted coat of PrimeMore CS. |                            |
| The primer must be allowed to dry before applying tile adhesive.   |                    |  |   |                            |

## Guidance Notes on Suitable Wall Backgrounds

**Prime the following backgrounds with PrimeMore Universal, diluted 1:3 by volume with clean water (1 part primer to 3 parts water). Depending on the porosity of the background, additional diluted coats may be required. All coats must be touch dry before applying additional coats or tile adhesive.**

### CEMENT:SAND RENDER

- Must be true and firmly bonded.
- New render must be prevented from rapid drying and be allowed to air dry for at least 2 weeks.

### CONCRETE BLOCKWORK

- Must be true and flat.
- Allow to dry for at least 6 weeks.

### PLASTER

- Tiles should only be fixed to a finish coat of plaster.
- Ensure it is dry, sound, free from any loose or weak material and well adhered.
- If both a backing coat and finish coat have been applied, allow to dry for a minimum of 4 weeks.

- Overly trowelled plaster should be brushed down with a stiff brush.
- Maximum permitted tiling weight is 20kg/m<sup>2</sup>.

### PLASTERBOARD

- Boards fixed to stud frames must be the correct thickness, securely fixed and rigid.
- For boards bonded to solid walls, allow the board adhesive to fully set before tiling.
- Maximum permitted tiling weight is 32kg/m<sup>2</sup>.

### TILE BACKER BOARDS

- Ensure the boards are installed as instructed by the manufacturer.
- Boards fixed to stud frames must be the correct thickness, securely fixed and rigid.
- For boards bonded to solid walls, allow the adhesive to fully set before tiling, and use mechanical fixings where specified by the manufacturer.
- Proprietary boards have varying weight limits - consult the manufacturer for details.

## Guidance Notes on Suitable Floor Backgrounds

Prime the following backgrounds with PrimeMore Universal, diluted 1:3 by volume with clean water (1 part primer to 3 parts water). Depending on the porosity of the background, additional diluted coats may be required. All coats must be touch dry before applying additional coats or tile adhesive.

### CEMENT:SAND SCREED

- Allow new screeds to dry for at least 3 weeks.
- Direct fixing of some natural stone tiles will require extended drying times, determined by the screed's thickness and the drying conditions.
- For proprietary screeds, follow the manufacturer's recommendations for preparation and drying times.

### HEATED CEMENT:SAND SCREED

- New screeds must be commissioned from 3 weeks after screed installation and before work commences.
- Heat slowly at a maximum rate of 5°C per day until the maximum operating temperature is reached. Hold this temperature for 3 days before allowing the screed to cool to room temperature.
- For proprietary screeds, follow the manufacturer's recommendations for commissioning and preparation.

### CONCRETE

- Allow new concrete to cure before being subjected to continuous air drying in good conditions for at least 6 weeks.
- Power floated concrete should be mechanically prepared to achieve a clean, sound, micro-textured, dust-free surface.

### TILE BACKER BOARDS

- Must be installed as instructed by the manufacturer and be securely fixed to suitable, prepared, solid bases.
- Ensure the adhesive used to fix the boards to the solid base has fully set before commencing tiling.

Prime the following backgrounds with one neat, undiluted coat of PrimeMore 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 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.

### EXISTING VINYL FLOORING

- Only hard vinyl can be tiled over – cushion vinyl must 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 ( $\leq 85\%$  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.
- The screed must be confirmed adequately dry ( $\leq 85\%$  RH).

### ADDITIONAL INFORMATION

**Underfloor Heating:** It is recommended that electric underfloor heating cables are fully encapsulated within a suitable Kelmox levelling and smoothing compound.

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, with an increase of no more than 2°C per day.

## Mixing

A 20kg bag 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 consistency for the specific application, but the adhesive 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 remix briefly before use.

## Application

Apply the mixed adhesive to the wall or floor before using an appropriately sized notched trowel to serrate consistent, straight ribs. Bed in the tiles within the open time ensuring good contact with the adhesive. Any adhesive that forms a skin must be removed and fresh adhesive reapplied. Where solid bed fixing is required, as far as possible the adhesive under/behind 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. The table below shows the approximate coverage of a 20kg bag when applied at different thicknesses.

| Application Thickness | 1.5mm              | 2mm             | 2.5mm             | 3mm               | 4mm             | 5mm               |
|-----------------------|--------------------|-----------------|-------------------|-------------------|-----------------|-------------------|
| Approximate Coverage  | 10.6m <sup>2</sup> | 8m <sup>2</sup> | 6.4m <sup>2</sup> | 5.3m <sup>2</sup> | 4m <sup>2</sup> | 3.2m <sup>2</sup> |

## Grouting

Allow the adhesive to set before grouting using a suitable Kelmor grout. MoreBond Standard C2 has been formulated to enable grouting after 16 hours when tested to the industry standard temperature of 20°C. Please note that higher temperatures will shorten the set time and lower temperatures will extend the set time.

### Notes:

- Cementitious adhesives should only be used when both air and background temperatures are 5°C or higher. If the temperature falls below 5°C, the chemical reaction required for the adhesive to set is hindered, dramatically slowing the curing process. Normal setting will only resume once temperatures rise. However, if temperatures drop below freezing before the adhesive has fully set, the integrity and performance of the product will be compromised.

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

**Health and safety:** For full details, please refer to the Safety Data Sheet, available at [www.kelmor.co.uk](http://www.kelmor.co.uk) or by contacting Kelmor Ltd.

**Storage And Shelf Life:** When stored in unopened packaging, off the ground, and in cool, dry conditions, this product has a shelf life of 12 months.

**BS & EN Standards:** Product should be used in accordance with the requirements of the relevant British and European Standards.

*All the information supplied by Kelmor Ltd is offered in good faith and is derived from the company's combined knowledge, experience and testing. Without prior notice, due to on-going research and development, the information we offer can be updated at any time. Kelmor's products are developed, tested and manufactured to consistently high standards, however, we accept no liability for any loss or damage which may arise from factors outside of our control, such as site conditions and/or the execution of the work.*



EN 12004: C2 TE



MoreBond Standard C2