

Fixing of Large Format Tiles Externally and on Heated Floors

Priming

Packaging



Mixing



Application



Fixing Tiles

Packaging



Mixing



Packaging



Mixing



Application



Grouting

Packaging



Mixing



Application



Uses



Substrates

Concrete floors
Heated floors

In Europe extensive tests have been conducted on the use of large format porcelain tiles subject to large temperature variations of 0-50°C or greater (i.e. temperature variations on external tiling, heated floors and showers).

After testing a range of adhesive types and polymer levels, it was concluded that only 'cementitious tile adhesive classified as C2S2 adhesive' could permanently 'guarantee a durable fixing of large format porcelain tiles'.

Construction Chemicals make genuine C2S2 adhesives, i.e. **Monoflex** and **Kemgrip Floor & Wall** mixed with **Elastacrete**.

Application

1. Prime the surface with **Primax** (brush or broom applied only).
2. Set tiles so that there are no voids under the tiles, by applying the adhesive to both the tile and the substrate.
3. Apply with a notched trowel. For tiles 400mm x 400mm or greater use a 12mm notch and butter tile back (as per the Australian Standard AS3958.1). The final bed thickness must not be less than 2mm for walls and 3mm for floors, to accommodate movement. Spread about 1 metre at a time. Tiles must be set in place while the adhesive is still wet on the surface. Press tiles firmly into the adhesive using a slight sliding motion. Tiles must be firmly bedded into the adhesive so no voids occur beneath the tiles. **Do not** spot fix. Movement joints (5mm) to be at 5 metre grids, corners and room perimeters are filled with a silicone sealant.
4. Fix tiles using good trade practice, in accordance with the tile manufacturer's recommendations.

A guide to tile joint sizes

Internal minimum 2mm, external minimum 4mm or as specified by the tile manufacturer and AS3958.1. **Do not** fix tiles with tight joints. When grouting joints of less than 3mm we recommend mixing the grout with **Primebond**. Greater care is needed to place the grout deep into joints before pointing the joints to compact the grout surface.

Recommended Adhesives are:

- **Monoflex**
- **Kemgrip Floor & Wall** mixed with **Elastacrete**

Grouting

Grout after adhesive has set, approximately 24 hours. Use **Kemgrout** mixed with **Primebond**.