

## Packaging



## Mixing



## Application



## Uses



## Substrates

New Concrete  
Brick  
Block  
Cement Render  
Building Boards  
Existing Tiles  
Heated Slabs  
Cement Sheet

## C2S2ET 'When failure is not an option'

### Description

A premium, water-resistant, flexible, rubber-based, fast-setting, cementitious adhesive for bonding ceramic and stone tiles to porous and non-porous surfaces subject to vibration and thermal movement.

### Uses

A one-pack, thick or thin bed, internal and external floor and wall flexible adhesive for fixing over most substrates, e.g. concrete, heated concrete slabs, cement render, fibre cement sheets, plasterboard, existing properly prepared ceramic tiles, vinyl tiles and **Construction Chemicals** waterproof membranes. **Not suitable for immersed or swimming pool application. Do not use directly over timber floors (Construction Chemicals provides other systems).**

### Features

- **C2** high bond strength, exceeds 1MPa
- **S2** exceptional flexibility deformation, exceeds 5mm
- **E** extended open time
- **T** non-slump
- A one-pack with two-pack performance, i.e. 1.9MPa adhesion > 5mm deflection
- Will withstand thermal and vibration movement and 1.0mm shrinkage cracks
- Exceeds the requirements of AS ISO 13007.1
- Ideal for fixing granite, porcelain & vitrified tiles
- For fixing tiles to fibre cement sheet over timber floors
- Suitable for shower alcoves
- Ideal for new concrete floors subject to shrinkage cracks
- Tiling over existing tiles
- Low VOC

### Performance Data

Exceeds the performance requirements of AS ISO 13007.1.

**Tensile adhesion strength** 1.9MPa (28 days)

### Coverage (Approximate)

20kg will cover 10m<sup>2</sup> using a 10mm notched trowel (floors).

### Specification

The ceramic tile adhesive will be a water-resistant, fast-setting, flexible, rubber-based, polymer-modified cement that conforms to AS ISO 13007.1 and has a minimum tensile adhesion strength of 1.9MPa, such as **Monoflex** manufactured by **Construction Chemicals** and shall be applied in accordance with the manufacturer's application instructions.

### Surface Preparation

The surface to be tiled must be firm and clean, free from dust, waxes, paint and other contaminants. Steel floated concrete floors must be mechanically roughened, washed thoroughly and allowed to dry prior to tiling. Prime with **Primax** on external and smooth surfaces and **Primebond** on internal porous surfaces.

### 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.

### Mixing

Mix with clean water using 3-4 litres to 10kg. Add the powder to the water while mixing with a slow speed electric drill to obtain a lump-free creamy consistency. Adjust mix to suit users preference. Pot life is approximately 2 hours. Allow to stand 5 minutes and re-stir before use.

### Application

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.

### Grouting

Grout when the tile bed has hardened so tiles can not be dislodged and the adhesive has set (approximately 8-12 hours). Use **Kemgrout** mixed with **Primebond**.

### Set Time

Approximately 8-12 hours, depending on temperature, humidity and surface porosity. Allow longer for dense tiles and cooler conditions.

When using externally or in shower alcoves protect the adhesive for 7 days (23°C @ 50% relative humidity) to allow the adhesive to fully cure before putting into use. Do not tile when rain is imminent.

### Precautions

- **Do not** use in immersed applications or to bond moisture sensitive stone and tiles
- **Do not** let the adhesive dry on the tile surface, remove while wet with a damp cloth or sponge
- Apply adhesive at temperatures from 10-30°C

### Safety Precautions

Non-toxic, but contains cement which contains silica. Wear gloves and appropriate respirator. Further information for this product is contained in the Safety Data Sheet. Refer; [www.constructionchemicals.com.au](http://www.constructionchemicals.com.au)

### Shelf Life

1 year