

# Monolite

## Packaging



## Mixing



## Application



## Uses



## Substrates

New Concrete  
Brick Block  
Cement Render  
Building Boards  
Existing Tiles  
Heated Slabs  
Cement Sheet  
Fixed to Timber  
Floors

## C2 S2 E T 'When failure is not an option'

### Description

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

### Features

- **C2** high bond strength, exceeds 1MPa
- **S2** exceptional flexibility deformation, exceeds 5mm
- **E** extended open time
- **T** non-slump
- Lightweight technology
- 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

### 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).**

### Performance Data

Exceeds the performance requirements of AS ISO 13007.1.

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

**Coverage** (Approximate)  
13.5kg covers 7-8m<sup>2</sup> (10mm notched trowel)

### 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 **Monolite** 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 4-5 litres to 13.5kg. 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 **Colour Seal** or **Sealflex**.

### Set Time

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

### Grouting

Grout after adhesive has initially set, approximately 8-12 hours. Use **Kemgrout** mixed with **Primebond**.

### Safety Precautions

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

### Precautions

- Do not use on moisture sensitive tiles and stone
- Do not apply beneath 10°C or above 30°C
- Ready for light foot traffic after 24 hours and can be put into service 3-4 days

### Clean Up

Excess adhesive on the tile face and in the joints can be cleaned up with a damp cloth. Clean application with water while the adhesive is still wet.

### Shelf Life

1 year if stored in unopened bags off the ground in a cool, dry environment.