

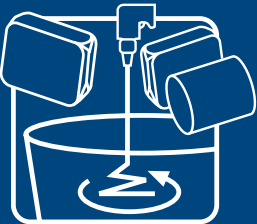
Kemflex 2:1

Flexible ceramic tile adhesive

Packaging



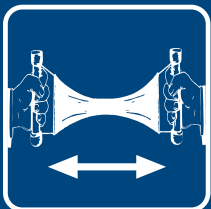
Mixing



Application



Uses



Substrates

Concrete
Brick, Block
Cement render
Building boards
Gypsum, Cement

Description

A two-pack, flexible, general purpose, internal and external, floor and wall adhesive, suitable for thin or thick bed application on surfaces subject to vibration and temperature fluctuation movement, and heated floors.

Uses

Adheres ceramic tiles to internal and external areas of cement render, brick and block, concrete (new and old), cement sheeting, plasterboard, old tiles, and adequately prepared painted surfaces.

Structural timber flooring, and tongue and groove timber floors: Fix 6mm cement sheet underlay before fixing tiles.

Wet Areas must have either **Flexible Sealer, Hydrathane, Liquid Flash 1, Liquid Flash 2** waterproofing membranes applied before fixing tiles with **Kemflex 2:1**.

Features

- **C2** high bond strength, exceeds 1.0MPa
- **S2** exceptional flexibility deformation, exceeds 5mm
- Accommodates 1.2mm cracks

Coverage

(Approximate)
20 litres of liquid mixed with 40kg of powder covers between 18-22m² (10mm notched trowel).

Performance Data

Exceeds the performance requirement of AS ISO 13007.1. Accommodates 1.2mm cracks at 3mm adhesive bed without cracking tiles.

Tensile adhesion strength 1.3MPa (28 days)

Specification

The ceramic tile adhesive will be a two-pack flexible adhesive that conforms with AS ISO 13007.1 and has a minimum tensile adhesion strength of 1.3MPa, such as **Kemflex 2:1** manufactured by **Construction Chemicals** and shall be applied in accordance with the manufacturer's application instructions.

Surface Preparation

All surfaces must be sound, firm and free from oil, grease, dust, coatings and other contaminants. Screw fixing of cement sheet to structural timber flooring is recommended to permanently eliminate movement. Prime with **Primebond** after sweeping thoroughly. Vinyl (firmly adhered): Clean thoroughly removing all polishes and waxes. Roughen by sanding.

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 only **Kemflex 2:1** liquid with **Kemflex 2:1** powder. Mixing ratio will vary depending on temperature and consistency requirements. Mix 1 litre of liquid with 2kg of powder. Stir liquid thoroughly then slowly add the powder to the liquid (never liquid to powder). Stirring continuously to avoid lumps and achieve a uniformly wet mixture. Allow to stand for 5 minutes and restir before use. Do not mix more than can be used in two hours.

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**.

Pot Life

2-4 hours depending on temperature - cover surface to avoid surface drying.

Grout

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 and appropriate respirator. Further information for this product is contained in the Safety Data Sheet. Refer; www.constructionchemicals.com.au

Shelf life

1 year powder / 2 years liquid.