

Packaging



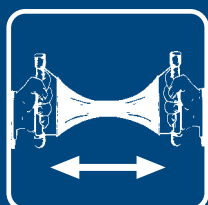
Mixing



Application



Uses



Substrates

Structural timber floors
Concrete
Brick, block
Cement render
Building boards
Gypsum, cement

Flexible ceramic tile adhesive

Description

Kemflex 2:1 is 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. Exceeds the performance requirement of AS4992.

Uses

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

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

- Accommodates 1.2mm cracks
- Direct to structural timber flooring

Coverage (Approximate)

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

Performance data

Exceeds the performance requirement of AS4992.

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 AS4992 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 manufacturers 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 and structural timber flooring is recommended to permanently eliminate movement. Sand with a 40 grit (dustless) floor sander to remove coating from the structural timber flooring. 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 AS3958.1-2007. **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 the mixture with the appropriate notched trowel, applying only 1 square metre at a time. (Do not spot fix tiles.) Fix tiles while the adhesive is wet on the surface. Press the tiles firmly into the adhesive ridges so that there are no voids beneath the tiles. Do not presoak tiles. Clean excess adhesive from the face of the tiles with a damp cloth before it dries. On irregular or awkward positions, tile backs can be fully buttered from 6-12mm thick and pressed firmly into position. The adhesive bed must be not less than 3mm to accommodate movement.

Pot life

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

Grout

Grout with **Kemgrout** mixed with **Primebond** after the adhesive has set (approximately 24 hours).

Safety precautions

Non-toxic but contains cement which contains silica. Wear gloves and appropriate respirator. Further information for this product is contained in the Material Safety Data Sheet. Refer; www.constructionchemicals.com.au

Shelf life

1 year powder / 2 years liquid.



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The information contained in this technical publication is based on our current knowledge and experience and is provided as a guide only. In view of the many factors that may affect application it is the user's sole responsibility to ensure suitability for a specific purpose.