

TileFlex Tile Adhesive



Characteristics:

- TILEFLEX is a rubber modified, Non Slump flexible white cement based tile adhesive
- TILEFLEX is a C2S1ET adhesive
- It is designed for bonding all types of ceramic, stone and mosaic tiles onto a variety of substrates like concrete, render, rendered brickwork, block work, Gyprock, plasterboard and fibre cement surfaces.
- It can be used internally on wall and floor surfaces and Externally on floors provided there is a fall to a drain and no ponding.
- TILEFLEX can be used for fixing low porosity tiles.
- TILEFLEX can be used to fix tiles over existing tiles as long as the surface is coated with RLA Universal primer prior to tiling.
- TILEFLEX can be used to fix tiles over most waterproofing membranes. However it is advisable to contact the manufacturer prior to commencing.
- TILEFLEX has been tested in accordance with AS 4992.1-2007 and passes its requirements.
- Do not use for moisture sensitive stone like green marble.

Preparation:

- Ensure all concrete slabs are allowed to cure for at least 6 weeks and have a wood float finish.
- All rendered surfaces must be allowed to cure for at least 7 days prior to commencing tiling.
- The maximum variation in the plane of the concrete must not exceed 5mm in 3 metres for floors and 4mm in 2 metres for walls.
- Steel trowelled finished concrete surfaces must be mechanically or chemically abraded prior to commencing tiling.
- Fibre Cement sheet, when used as an underlay must be
 - a minimum of 6mm in thickness. For heavy duty commercial applications it should be a minimum of 9mm thick and all should be fixed in accordance with the manufacturers instructions
 - and the relevant standards.
- Compressed Fibre Cement sheets when used as a floor substrate must be 15mm thick and when used as a wall substrate must be 9mm thick and must be installed in accordance with the manufacturer's instructions and the relevant standards.
- Gypsum - plasterboard sheets when used as a wall substrate must be a minimum of 10mm thick, and installed in accordance with the manufacturer's instructions and the relevant standards.
- Ensure all surfaces are sound, dry and free from excessive movement, oil, dust, grease, wax, curing compounds, release agents and any other loose contaminating materials.
- It is recommended that all porous surfaces be primed with Uniprime to ensure a sound bond of the adhesive to the substrate.
- When applying the primer onto a floor surface it is recommended to firstly pour some primer in a section then spread the primer using a broom, brush or roller. Then continue this method of application until the entire area is primed. Note: This method of application ensures a thorough coat of the primer on the surface.
- Allow the primer to dry for approximately 30 to 40 minutes at 20°C prior to commencing tiling.
- Any excess Uniprime that has not dried should be removed with a rag or spread out with a brush prior to tiling

Expansion / Movement Joints:

Expansion / movement joints must be provided to allow for movement between adjacent building components. They should be as follows:

- Over Existing joints in the substrate.
- Where two different substrates meet. E.g: Timber and Concrete.
- Around fixed elements in the floor E.g. Columns.
- At internal vertical corners.
- Around the perimeter of the floor.
- In internal floors where any dimension exceeds 9m or 6m if subjected to sunlight.
- In external floors where any dimension exceeds 4.5 m.
- On wall surfaces at storey heights horizontally and approximately 3m-4.5m apart vertically.

Ideally they should be located over movement joints in the structural background and at structural material changes for example the horizontal joint at the bottom of floor slabs, vertical joints at internal vertical corners, and at junctions with columns.

Movement joints should go right through the tile adhesive bed to the background and kept free from dirt and adhesive droppings.

Movement joints must not be less than 6mm and not wider than 10mm. The movement joints must be installed as per AS3958:2007

Mixing:

- The mixing ratio of TILEFLEX is 20kg of powder to 6 litres of water.
- Pour 6 litres of clean water into a drum and then gradually add the TILEFLEX while mixing continuously until a smooth lump free mix is obtained. Always add powder to liquid.
- Allow the mix to stand for 1 minute, re-stir and then apply the adhesive onto the substrate.

Coverage:

- A 20kg bag of TILEFLEX will cover approximately 7-8m² using a 10mm notched trowel.

Application:

- All preparation and tiling should be carried out in accordance with AS3958:2007 - Guide to the Installation of Tiles.
- Once the surface has been appropriately prepared in accordance with TDS's instructions then apply the adhesive onto the substrate using an appropriate notched trowel.
- For floor tiling use a 10mm x 10mm square notched trowel for tiles up to 300mm x 300mm. For tiles 300mm x 300mm and larger use a 12mm x 12mm square notched trowel. For mosaic tiles use a 6mm x 6mm square notched trowel.
- For wall tiling use 6mm x 6mm square notched trowel for tiles up to 150mm x 150mm. For tiles larger than 150mm x 150mm use a 10mm x 10mm square notched trowel.
- TILEFLEX should be applied onto the substrate at a rate of 1m² at a time. Application rates greater than this can result in the adhesive skinning before the tiles are laid into it.
- Once the adhesive is applied onto the substrate ensure that it does not skin prior to bedding the tiles into it. Once the adhesive skins do not lay tiles into it, but remove it and apply fresh adhesive.
- When placing the tiles into the adhesive press them in by using a sliding action. Ensure no voids occur and full coverage of adhesive is under the tiles.
- For tiles larger than 330mm x 330mm or tiles with lugs, grooves or uneven backing it is required to butter the back of the tile with adhesive in addition to trowelling the adhesive onto the substrate.
- The final bed thickness of the adhesive should be at least 2mm for wall tiling and 3mm for floor tiling.

- Once the tiling is completed do not disturb the tiled surface for at least 6 - 8 hours at 20°C.
- Protect tiling from rain and inclement weather until 24 hours after grouting is complete.

Grouting Application:

- Grouting application can commence 24 hours after the completion of tiling.
- Grouting can be done using RLA's Smooth or Sanded Grouts.
- Apply the grout onto the surface using a rubber float or squeegee. Work the grout in a diagonal motion to avoid dislodging the grout from the joints.
- Clean up can be done using a damp sponge. Ensure you use a clean sponge every time.
- Grout will fully dry in 24 hours at 20°C, after which time the area can be put into service.

Packaging / Shelf Life:

- TILEFLEX is available in 20kg bags.
- A bag of TILEFLEX, when stored in a cool, dry environment, and is stored above ground level, will have a shelf life of approximately 12 months.

Handy Tips:

- Do not apply RLA TILEFLEX in temperatures above 40°C and below 5°C.
- RLA TILEFLEX cannot be used for fixing tiles over timber or steel framed floors where spans are larger than 5m or in external areas.
- Call RLA for technical advice.
- RLA TILEFLEX cannot be used for fixing tiles in permanently immersed situations like swimming pools, spas etc. and permanently damp concrete slabs like those present around the pool surrounds etc.
- For applications / situations not mentioned in these instructions please contact your nearest RLA office.
- RLA TILEFLEX being cement based is alkaline in nature and therefore may cause dermatitis. It is recommended that applicators wear PVC gloves or similar and safety goggles.
- For a full SDS on this product please contact your nearest RLA office.

Clean up:

- Excess adhesive from the face of the tiles can be cleaned up with damp cloth while the adhesive is still wet
- Adhesive that has oozed out into the grout joint must be raked out with a knife / spatula etc.
- Tools and other equipment can be cleaned up using water while the adhesive is still wet.

Technical Data

Appearance	Off White Powder
Bulk Density	1.18 +/- 0.05
Open Time Approx	20 minutes @ 20°C
Adjustment Time	Approx 30 minutes @ 20°C
Pot Life	2 Hours @ 20°C
Ready for grouting	16 hours @ 20°C
Light foot traffic	24 hours
Ready for wet area service	3-4 days

Disclaimer: The information supplied is to the best of our knowledge true and accurate. The actual application of the product is beyond the manufacturers control. Any failure or damage caused by the incorrect usage of the product is not the responsibility of the manufacturer. The manufacturer insists that all workmanship must be carried out in accordance with AS 3958.1-2007. It is also the responsibility of the end user to ensure that the literature in their possession is the latest issue.