

MoreFlex Tile Adhesive



Product description:

- Moreflex is a rubber modified, flexible white cement based tile adhesive
- Moreflex is a C1S1ET adhesive
- It is designed for bonding all types of ceramic and mosaic tiles onto a variety of substrates including concrete, render, rendered brickwork, block work, Gyprock, plasterboard, fibre cement
- It can be used internally or externally on wall and floor surfaces
- Moreflex can be used for fixing low porosity tiles.
- Moreflex can be used to fix tiles over most water based waterproofing membranes. However it is advisable to contact the manufacturer prior to commencing. Contact RLA Technical Service before tiling over any 100% PU Membrane or solvent based PU Membranes.
- Moreflex is not recommended for moisture sensitive stone like green marble.
- Moreflex can be used externally over areas that are covered as long as there is a fall to a drain (no ponding).

Preparation:

- Ensure all concrete slabs are allowed to cure for at least 6 weeks and cured for a minimum of 24 hours 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 to the concrete must not exceed 5mm in 3 meters for floors and 4mm in 2 meters for walls.
- Steel towelled finished concrete surfaces must be mechanically abraded or chemically treated 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 manufacturer's 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.
- If tiling over existing tiles, first ensure the tiles are soundly fixed, and that none of them are loose or drummy. The tiles can be coated with RLA Universal Primer, in accordance with the products TDS
- Ensure all surfaces are sound, dry and free from excessive movement, oil, dust, grease, wax, paint, curing compounds, release agents and any other loose contaminating materials.
- All porous surfaces like concrete, screeds, fibre cement sheet etc. should be primed using RLA Uniprime.
- 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 ensuring to avoid any pooled sections with an excessive amount of primer. Note: This method of application ensures a thorough coat of the primer on the surface.
- Allow the primer to dry for approximately 30 - 40 minutes at 20°C prior to commencing tiling.
- Any excess Uniprime that has not dried should be spread out with a brush and allowed to dry 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 8mm and not wider than 10mm. The movement joints must be installed as per AS3958:2007

Mixing:

- The mixing ratio of Moreflex is 20kg of powder to 6-6.5 Litres of water.
- Pour 6 litres of clean water into a clean drum and then gradually add the Moreflex while mixing continuously until a smooth lump free mix is obtained. Always add powder to liquid.
- Allow the mix to stand for 5 minutes, re-stir and then apply the adhesive onto the substrate.

Coverage:

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

Application:

- All tiling should be carried out in accordance with Australian Standard AS3958.1-2007.
- Once the surface has been appropriately prepared in accordance with RLA's Data sheets instructions then apply the adhesive onto the substrate using the appropriate notched trowel.
- For tiles up to 300mm x 300mm use a 10mm x 10mm square notched trowel.
- For tiles 300mm x 300mm and larger use a 12mm x 12mm square notched trowel and back butter each tile with the adhesive.
- For mosaic tiles use a 6mm x 6mm square notched trowel.
- For wall tiling: For tiles up to 150mm x 150mm use a 6mm x 6mm square notched trowel.
- For tiles larger than 150mm x 150mm use a 10mm x 10mm square notched trowel.
- Moreflex 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.
- Note: In hotter condition Moreflex should be applied in smaller areas, eg: 1/2m x 1/2m² to minimise the chance of skinning. (Periodically check for skinning)
- 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, 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. Periodically pull a tile up and check for 100% coverage.
- For tiles with lugs, grooves or uneven backing it may be 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.
- Do not disturb tiling for at least 24 hours.
- 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.
- After grouting allow to cure undisturbed for 24 hours at 20°C before putting area into service.

Packaging / shelf life:

- Moreflex is available in 15kg bags.
- A bag of Moreflex, 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 Moreflex in temperatures above 40°C and below 5°C .
- Internal framed floors with spans of more than 5m and external framed decks require special consideration. Contact RLA's Technical Department for special advice.
- Moreflex 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.
- Moreflex can not be used for fixing tiles directly to timber floors.
- For applications/situations not mentioned in these instructions please contact your nearest RLA office.
- Moreflex being cement based is alkaline in nature, and therefore may cause dermatitis.
- It is recommended that applicators wear PVC gloves or similar and safely 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.

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