

DELTA FLEX

HIGH PERFORMANCE MULTIPURPOSE TILE ADHESIVE

Characteristics:

- Deltaflex is a multipurpose, heavily polymer modified thin or thick bed adhesive designed for bonding most types of ceramic tiles and stone onto substrates that may be subject to vibration and thermal movement.
- Deltaflex can be used internally or externally for most domestic and light commercial wall and floor tiling applications where the substrate is subject to limited movement e.g. under tile heating systems etc, but should not be used for laying tiles directly onto timber substrates or for applications that are subject to total immersion.
- Deltaflex is typically applied to: Concrete, Render, Brickwork, Fibre cement sheets, Heated floor slabs, Plasterboards, existing properly prepared ceramic tiles, and waterproof membranes.

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 meters for floors and 4mm in 2 meters 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 material 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.
- Deltaflex is not suitable for framed floor construction. F/C sheet flooring must be screeded with no less than 25mm of screed.
- 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, paints and any other loose contaminating materials.
- It is recommended that all surfaces must be primed with Universal Primer, especially porous surfaces, 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. Continue this method of application until the entire area is primed.
- Any excess Universal Primer that has not dried should be removed with a rag prior to tiling.
- Allow the primer to dry for approximately 30 - 40 minutes at 20°C prior to commencing tiling.

COMPLIES WITH

AS ISO 13007.1-2013
Class C1S2T

C1 - Good Bond Strength
S2 - High Flexibility
T - Non-Slump



DELTA FLEX

A PREMIUM GRADE, HEAVILY POLYMER MODIFIED,
FLEXIBLE ONE PART CERAMIC TILE ADHESIVE
MASSIVE COVERAGE OF UP TO 10-12m² PER 20kg BAG
CAN BE USED ON INTERNAL OR EXTERNAL WALLS
AND FLOORS
SUITABLE FOR USE ON NEW 7 DAY OLD CONCRETE
(SEE DATASHEET)
FAST SETTING, GROUT IN 6-8 HOURS AFTER TILING

20KG

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 Deltaflex is 20kg of powder to 7 litres of water.
- Pour 7 litres of clean water into a drum and then gradually add the Deltaflex while mixing continuously until a smooth lump free mix is obtained.
- Always add powder to liquid.
- Allow the mix to stand for 10 minutes, re-stir and then apply the adhesive onto the substrate.

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 RLA'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 and back butter each tile. 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.
- Deltaflex 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 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 and 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 24 hours at 20°C. Protect tiling from rain and inclement weather until 24 hours after grouting is complete.

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.

Coverage:

- A 20kg bag of Deltaflex will cover approximately 8-9m² using a 10mm notched trowel.

Grouting Application:

- Grouting application can commence after curing for 24 hours at 20°C.
- Grouting can be done using RLA's Grouts. Follow RLA application instructions. Do not allow foot traffic on tiling until 24 hours after the grout has cured.

Packaging / Shelf Life:

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

Handy Tips:

- Do not apply Deltaflex in temperatures above 40°C or below 5°C.
- Deltaflex cannot be used for fixing tiles directly onto timber floors. Deltaflex cannot be used for fixing tiles in pools.
- Internal framed floors with spans of more than 5m and external fanned decks require special consideration. Contact RLA's Technical Department for special advice.
- For applications / situations not mentioned in these instructions please contact RLA NZ or your nearest distributor.
- Deltaflex 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.

Contact RLA NZ or your nearest distributor for a product MSDS.

Safety Directions:

- Wear gloves and mask when handling.
- Wash hands thoroughly after use.
- Manual handling of this bag without due care and attention may result in personal injury.

Technical Data

Appearance	Light Grey Powder
Bulk Density	1.05 +/- 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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