



SOLUTIONS FOR INDUSTRY

RLA Flex 1-Part

Characteristics:

- ž RLA Flex 1-Part is a premium grade, Flexible off white 1-part ceramic tile adhesive designed to withstand movement in the substrate, where conventional adhesive are too rigid.
- ž It is designed for bonding all types of ceramic, stone, with the exception of light coloured and Green marble, and mosaic tiles onto a variety of substrates like concrete, rendered brickwork, block work, plasterboard, fibre cement, particle board, and tongue and groove timber surfaces.
- ž It can be used internally or externally on wall and floor substrates.
- ž RLA Flex 1-Part can be used to fix low porosity tiles, over timber floors without using underlays and over most waterproofing membranes.

Preparation:

- ž Ensure that all surfaces are sound dry and free from excessive movement, oil dust, grease, wax, curing compounds, release agents, paints and any other loose contaminating material.
- ž It is recommended that all surfaces be primed with Uniprime, especially porous surfaces, to ensure a sound bond of the adhesive to the substrate.
- ž Allow the primer to dry for approximately 30-40 minutes at 20°C prior to commencing tiling.

Expansion/ Movement Joints:

- ž Expansion/ Movement joints must be provided to allow for movement between adjacent building components. They should be as follows:
- ž Over existing joints in the substrate, where two different substrates meet e.g. Plasterboard and fibre cement sheet, at internal vertical corners.
- ž On wall surfaces at storey heights horizontally and approx. 3m-4.5m apart vertically.
- ž 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 6 mm and not wider than 10 mm. The movement joints must be filled with a flexible sealant like Silicone.

Mixing:

- ž The mixing ratio of RLA Flex 1-Part is 20kg of powder to approximately 5-6 litres of water.
- ž Pour the water into a clean drum and then gradually add the RLA Flex 1-Part while mixing continuously until a smooth lump free mix is obtained. Always add powder to liquid.
- ž Allow the mix to stand for 10 minutes, re-stir and then apply the adhesive onto the substrate.

Application:

- ž RLA Flex 1-Part 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.
- ž 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.
- ž When placing the tiles into the adhesive press them in by using a twisting or sliding motion. Ensure no voids occur and full coverage of adhesive is under the tiles.
- ž Once the tiling is complete do not disturb the tiled surface for at least 24 hours at 20°C.

Clean up:

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

Coverage:

- Ž A 20kg bag of RLA Flex 1-Part will cover approximately 7-9m² using a 12mm notched trowel.

Grouting Application:

- Ž Generally grouting can be carried out after the adhesive has achieved a firm set (24 hours).
- Ž Use either RLA Grout, Smooth Grout, or Flexi-grout™ liquid premix.

Packaging/ Shelf Life:

- Ž RLA Flex 1-Part is available in 20 Kg bags.
- Ž A bag of RLA Flex 1-Part, when stored in a cool, dry environment, and is stored above ground level, will have a shelf life of approximately 12 months.

Handy Tips:

- Ž RLA Flex 1-Part can not be used for fixing tiles in permanently immersed situation like swimming pools, spas etc. and permanently damp concrete slabs like those present around the pool surrounds.
- Ž RLA Flex 1-Part is not suitable for applications where heavy traffic or high point loads will be applied over the tiling installation.
- Ž RLA Flex 1-Part is classified as a non-hazardous product.
- Ž For a full MSDS on this product please contact your nearest RLA office.
- Ž RLA Flex 1-Part being cement based is alkaline in nature, and therefore may cause dermatitis.

Technical Data:

Properties	Results
Appearance	Off white powder
Bulk Density	Powder 1.00 +/- 0.05
Open Time	Approx. 45 minutes @ 20°C
Pot Life	Approx. 3 hours @ 20°C
Drying Time @ 20°C	Approx. 24 hours
Tensile Strength	0.40 MPa
Modulus of Elasticity	0.42 MPa

The information supplied is to the best of our knowledge true and accurate. The actual application of the product is beyond the manufacturer's control. Any failure or damage caused by the incorrect usage of the product is not the responsibility of the manufacturer. The manufacturer insist that all workmanship must be carried out in accordance with AS3958 part 1 1991. It is also the responsibility of the end user to ensure that the literature in their possession is the latest issue.