



SOLUTIONS FOR INDUSTRY

F55

Flexible Tiling Adhesive

Characteristics:

- F55 is a unique, reactive two component, elastomeric adhesive suitable for both internal and external applications that requires rapid set, a high degree of flexibility and waterproof finish.
- F55 can be used to adhere a wide variety of products including, wood plant, cork, rubber tiles, ceramic tiles, stone and more.
- F55 is typically applied to: Butyl rubber membranes, EPDM rubber membranes, Bituminous torch down membranes, Concrete, Render, Brickwork, fibre cement sheets, heated floor slabs, Plasterboards, Particle board, most solvent free membranes, Steel, and Aluminum.
- Due to the curing mechanism, F55 is an adhesive that is suitable for problematic applications and small tiling jobs that need to be flexible and laid and grouted in one day.
- F55 is only slightly affected by cold climate and is the recommended adhesive for laying tiles onto impermeable membranes.

Preparation:

- F55 has a tenacious bond to most substrate types including those that are damp. However the substrate should be well fixed, clean and free from all forms of contamination.
- Priming is not necessary unless the surface is very porous.
- When using to lay tiles on butyl rubber surfaces; flat trowel a small amount of F55 adhesive along both sides of the laps, and allow to set up, before applying the adhesive for laying the tiles themselves.

Expansion/ Movement Joints:

- Expansion/ Movement joints must be provided to allow for movement between adjacent building components. They should be as follows:
 1. 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, and around the perimeter of the floor.
 2. In internal floors where any dimension exceeds 9m or 6m if subjected to sunlight, and in external floors where any dimension exceeds 4.5m.
 3. On wall surfaces at storey heights horizontally and approx. 3m-4.5m apart vertically.
- 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 such as RLA Tilesil Silicone, or Urethane sealant.

Mixing:

- Mix the two parts together in a clean bucket; pour in enough of the liquid component that can be used in 20 - 30 minutes. Mix in the powder component (about 0.5kg per Litre). Mix until a smooth lump free paste is achieved. .
- **USE IMMEDIATELY**

Application:

- Due to the highly reactive nature of F55 it is essential that work is carried out rapidly.
- Avoid working on hot substrates and in direct sunlight if possible. If outside and this situation is unavoidable; spray the surface with water to cool, and apply adhesive as the moisture evaporates.
- Damp substrates are acceptable but avoid any puddles by sweeping excess water away.
- If laying timber plank or ceramic tile apply the adhesive to the substrate using a 6 - 10 mm notched trowel and firmly press the tiles into the adhesive.
- For cork or rubber tiles; a 2-3mm notched trowel will be suitable.
- Do not use product once it has started to set up.

Clean up:

- Water while the adhesive is still wet. If dry, “peel” or “roll” product off surfaces, or tools.

Note: This can be achieved only because of the highly flexible nature of F55 as it is “stretched” off the surface. In use under tiles, stone, or timber this will not be achievable, and the bond will be extremely tenacious.

Coverage:

- Coverage will vary depending on the substrate condition and the type of top covering but is approximately 0.5 - 0.75m²/L (of liquid component) for tiling depending on trowel notch size, and approximately 2 - 3 m²/L (of liquid component) if laying cork or rubber tiles.

Grouting:

- Because F55 cures rapidly, grouting can normally be carried out within 3-6 hours of laying tiles.
- To achieve a crack free non efflorescing grout finish RLA Flexi-grout™ premixed liquid grout must be used. Please precisely follow the instructions found on the technical data sheet for installing this grouting system. Although strongly discouraged, other grouts with or without additives, may be used at tilers own risk.

Packaging/ Shelf Life:

- F55 is available in 20L/10kg kits
- When stored in a cool, dry environment, above ground level, will have a shelf life of approximately 12 months.

Handy Tips:

- As working time is limited with F55, as much preparation as possible should be done prior to mixing the adhesive.
- Do not lay any floor covering on F55 that has skinned off, as this will not give a secure bond.
- To avoid working on hot surfaces (this speeds set time), lightly hose down the surface of the membrane to cool it down (avoiding recently laid areas).
- F55 can be laid on damp surfaces, but any “ponding” water must be swept away.
- Due to the complex chemicals found in F55, Flexi-Grout™ liquid is highly recommended with F55 to avoid cracking and efflorescence.

Technical Data:

Properties	Results
Appearance	Dark Grey (wet) Black (dry)
Working time	20-40 minutes
Setting Time	2-4 hours
Full Cure	48 Hours
Application Temperature (ambient)	+5°C to +30°C
Service Temperature	-10°C to +60°C

Warranty:

If used in accordance with our instructions, F55 carries RLA Polymers standard manufacturers warranty for a period of 10 years. If in doubt contact your distributor or RLA Polymers PTY LTD prior to any work being done.

NOTE: All statements and technical information contained herein are based on tests we believe to be reliable and the accuracy thereof is not guaranteed. The information contained in our literature or given by our employees, agents or distributors about our products and their uses are based upon extensive experience of the manufacturer and is given in good faith in order to assist you. Users assume all risk and liability resulting from the use of our products and must confirm the suitability thereof by their own onsite tests. Conditions of sale contain a limited warranty against manufacturing defects. It is the responsibility of the user to obtain the most recent technical data and instructions for use of any RLA Polymers PTY LTD products. The manufacturer insists that all workmanship must be carried out in accordance with AS3958 part 1 1991