



POWERFLEX

HIGH BOND STRENGTH & SUPERIOR FLEXIBILITY • GROUT IN 3 HOURS

Powerflex is a cementitious one pack, flexible, fast setting, rubber based tile adhesive. **Powerflex**, when cured, exhibits water resistance, high bond strength & superior flexibility. **Powerflex** installations can usually be grouted after only 3 hours.

SUITABLE SUBSTRATES

- Concrete/Cement Render
- Brickwork/Blockwork (Cement Rendered)
- Fibre Cement Sheets (Primed)
- Plasterboard (Primed)
- Painted Substrates
- Tilt Up Slabs
- Tile Over Tile
- Timber Flooring & Cork & Vinyl & Vinyl Adhesive (Call us for free site specific technical advice)
- Over Morgan Waterproof Membrane

COLOUR	SUITABLE TILES
White	Natural Stone
Grey	Bicottura
INTERIOR/EXTERIOR	Monocottura
Walls	Fully Vitrified
Floors	Porcelain

PRECAUTIONS

Powerflex is unsuitable for:

- bonding moisture sensitive green marble
- bonding to MDF board or timber & wax impregnated wood (Our technical advice - sheet with fibre cement boards)
- bonding to substrates subject to constant water immersion such as swimming pools

SUBSTRATE PREPARATION & EXPANSION JOINTS

All substrates to be tiled must be flat and true, free from oil, dirt, grease or any other contaminants. Very porous substrates should be primed with **Plastinex** (1 part Plastinex mixed with 4 parts water). Incorporate expansion joints in accordance with AS 3958.1 2007.

Concrete: New concrete must be allowed to cure for 6 weeks and should have a wood float finish. Use **Floor Prep** to acid etch an adhesive key into concrete finished with a steel float.

Cement Render : Render to be left with a wood float finish and allowed to cure for 7 days.

Fibre Cement Sheets : Fibre cement sheets must be primed with **Plastinex** (1 part Plastinex mixed with 4 parts water) and all joints must be taped with PVC duct tape and fixed according to the manufacturer's instructions.

Plasterboard : Plasterboard must be fixed as per manufacturer's instructions. Jointing compound must be primed with **Plastinex** (1 part Plastinex mixed with 4 parts water).

Painted Substrates: Oil based paints must be in good condition with all flaky paint removed. Surfaces must be washed with a commercial cleaner such as Sugar Soap. Acrylic based paint surfaces are to be treated in the same manner as oil based paint surfaces. PVA based paint surfaces must be scabbled to expose at least 80% of the original substrate. (Call us for free site specific technical advice).

Tilt Up Slabs: Silicon or diesel release agents must be thoroughly removed prior to tiling. Liaise with the manufacturer to identify the release agent and removal strategy. Gyprock sheeting or sandblasting is recommended.

Tile Over Tile: Tiles should be thoroughly cleaned with a commercial cleaner such as Sugar Soap.

Metal Substrates: Thoroughly clean & degrease. Epoxy primers are recommended to guarantee a bond.

**FREE TECHNICAL ADVICE
& MATERIAL SAFETY DATA SHEETS**
Email: info@morganadhesives.com.au
Helpline: (08) 9441 6677 Response within 24 hrs

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OPEN TIME

Powerflex has an open time of approximately 10 minutes, which can be shortened to just a few minutes by the action of sun, wind, high temperatures or highly absorbent surfaces. Dampening or priming the substrate prior to tiling prolongs the open time of the adhesive. Tilers need to constantly check that the adhesive has not formed a surface skin and is still fresh to touch. Adhesive with a surface skin must be always removed and discarded.

MIXING & POT LIFE

Add **Powerflex** to clean water at a ratio of 20kg to 5 litres of water. Mix the adhesive to a smooth paste free from lumps by using a drill that has a speed lower than 300 rpm, or mix by hand. Slacken the adhesive and re-mix after 5 minutes. **Powerflex** has a pot life of approximately 1 hour at 23°C and 50% relative humidity.

APPLICATION, TOOLS & ADJUSTABILITY TIME

Always install the tiles in accordance with AS 3958 1:2007 and ensure the backs of the tiles are free of dust. Spread **Powerflex** evenly across one square metre at a time with a 6mm notched trowel for walls and a 10mm notched trowel for floors. The choice of trowel should be governed by the depth of the knobs, grooves or ridges on the back of each tile and the evenness of the substrate. Lay the tiles with a fair pressure and at right angles to the adhesive notched pattern. The final bed of adhesive should be between 2mm and 4mm. Wall tiles should have a finished joint width of 2mm - 4mm and floor tiles should have a finished joint width of 3mm - 6mm. Tiles can be adjusted for approximately 5 minutes after laying.

COVERAGE

20kgs of **Powerflex** will cover approximately 12 square metres with a 6mm notched trowel for walls and approximately 10 square metres with a 10mm notched trowel for floors.

CURE TIME

Powerflex cures in approximately 24 hours at 23°C and 50% relative humidity. High density substrates or tiles and temperatures during installation below 10°C will significantly increase the cure time.

CLEAN UP

Remove excess **Powerflex** from the grout joints after 10 minutes and clean the tiles with a damp cloth or sponge. Tools and hands can be cleaned with water while the adhesive is still wet.

JOINT GROUTING

Depending on environmental conditions, commence grouting after approximately 3 hours. Use **Regular Grout** for grout joints between 3mm to 6mm or **Architectural Superior Grout** for grout joints between 0.5mm to 3mm. Morgan **Slate & Quarry Grout** should be used for joint sizes between 6mm to 20mm. Use **Aquapoxy**, a three component anti-acid epoxy grout, if the joints are required to have a good chemical resistance. The ideal grout joint is 3mm. **Grout Add** may also be mixed with **Regular Grout** to impart extra flexibility, reduce porosity and increase water resistance.

JOINT GROUTING PRECAUTIONS

DO NOT use excessive amounts of water during mixing or initial cleaning as this will cause irregular colour finishes and also weaken the grout. **DO NOT** mix the grout with an electric drill above 300 RPM as this can entrap air into the mix causing grout to dry soft and powdery or with unsightly pin holes in the surface. **All grouts should be Damp Cured for 48 hours.** Refer to the Australian Standard AS 3958 Part 1 Section 5.7.3.

SHELF LIFE

Twelve months if stored in a dry & elevated position in the original factory sealed packaging.

PACKAGING

Powerflex is available in 20kg, 10kg and 5kg bags, and 1kg handyman tubs.

SPECIFICATION CLAUSE

The wall & floor adhesive shall be Morgan **Powerflex** - a high performance tile adhesive complying with all relevant Australian & International technical standards.

MORGAN QUALITY POLICY STATEMENT

Powerflex is manufactured and distributed to a quality system based on ISO 9001:2000. **Powerflex** is guaranteed for 10 years when installed to the guidelines of AS 3958 Part 1 & 2 and in conjunction with written technical information supplied by **Morgan Ceramic Tile Adhesives**.

USER NOTE Although the technical details and recommendations contained in this brochure correspond to the best of our knowledge and experience, all of the above information must, in every case, be taken as merely indicative and subject to confirmation after long term practical applications: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in any case the user is fully responsible for all consequences deriving from the use of the product.



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