



PRO GRIP

FLEXIGRIP ADHESIVE

TECHNICAL DATA SHEET

PURPOSE

PRO GRIP FLEXIGRIP ADHESIVE® is a specially formulated cement-based polymer modified tile adhesive designed for the installing of ceramic, clay and cement based tiles onto all types of cement based surfaces as well as other pre-primed surfaces. PRO GRIP FLEXIGRIP ADHESIVE® is recommended for larger format tiles (>400mm x 400mm), tiles with high porosity (>8%) and most high stress application areas like suspended slabs, high traffic walkways, outdoor patios etc. This product is suitable for both wall and floor and interior and exterior applications.

MIXING INSTRUCTIONS



1. Add 5 litres of water to suitable container.
2. Slowly add 20 kg of tile adhesive.
3. Mixing with an electric drill and paddle will ensure thorough mixing.
4. Mix to a creamy consistency.
5. Use within 3 hours.

SURFACE PREPARATION

(These recommendations are in accordance with the SABS standard SANS 10107:2011 - The design and installation of ceramic tiles.)

1. Ensure that surfaces to be tiled are sound (no cracks or crumbling), clean, free of dust, release agent, fungi, or any surface dampness. Fungi must be removed and the spores killed with the use of an effective fungicide. (a dilution of household bleach is sufficient)
2. New walls and floors must be allowed to cure for minimum periods as listed below to ensure that movement due to shrinkage does not affect the installation

*This guideline only serves as a basic manual for the surface preparation, product selection and installation procedure for this type of application. Each installation needs to be assessed on merits and the products used and the procedures followed should be in accordance with the SABS code for the design and installation of ceramic tiles (SABS 10107:2011).

- a. Direct bedding onto new walls and concrete surfaces: 6 weeks
- b. New plaster walls: 2 weeks
- c. New screeded floors: 4 weeks

3. Very smooth surfaces such as steel trowelled and off-shutter concrete must be acid washed to remove laitance and then rinsed thoroughly with cold water. The surface must then be primed with a mixture consisting of two parts PRO GRIP BASECOAT[®] mixed with one part PRO GRIP KEYCOAT[®] and allowed to dry prior to tiling.

4. Painted surfaces, gypsum plasters and surfaces that have old bitumen adhesive on them must be chipped in order to expose at least 80% of the substrate. The surface must then be primed with a mixture consisting of two parts PRO GRIP BASECOAT[®] mixed with one part PRO GRIP KEYCOAT[®] and allowed to dry prior to tiling.

5. Highly porous substrates can negatively affect the bond strength of the tile adhesive. Check the porosity of the substrate by applying a small quantity of water. If the moisture is completely absorbed within one minute, then the surface is too porous and will need to be sealed with a mixture of two parts PRO GRIP BASECOAT[®] mixed with one part PRO GRIP KEYCOAT[®] and allowed to dry prior to tiling.

APPLICATION

Only apply sufficient adhesive to an area as can be tiled within 10 minutes. Use a suitable notched trowel to maintain a minimum bed height of 6-7 mm for floor tiling and 3-4 mm for wall tiling. The recommended trowels are as follows:

Application	Trowel Size (height x width x gap)
Wall tiles	6mm x 8mm x 5mm
Floor tiles smaller than 400mm x 400 mm	10mm x 10mm x 6mm
Floor tiles larger than 400mm x 400	17mm x 22mm x 6mm

As a guide, a 20 kg bag adhesive will cover approximately 3.8 meters using a 10 mm notched trowel on a relatively even surface.

GENERAL APPLICATION INFORMATION

1. Ensure that the back of the tiles are free of dust and contamination.
2. DO NOT BUTT JOINT TILES.
3. Minimum grouting joint width for wall tiling is 2mm and for floors 3 mm unless otherwise specified by the tile manufacturer.
4. Bed tiles into wet adhesive with a twisting action in order to ensure adequate contact with the back of the tile. The use of a rubber mallet is recommended when bedding heavy thick tiles.
5. Excessively hot or cold ambient temperatures during installation will affect setting times and may affect bond strength.
6. Remove all adhesive from the grouting joints as the application progresses.
7. Tiles with very uneven backs will require buttering with adhesive prior to bedding into the wet adhesive bed.
8. For permanently wet conditions or where heavy duty strength is required, replace mixing water with PRO GRIP BONDING LIQUID[®] in the ratio of 20 kg PRO GRIP FLEXIGRIP ADHESIVE[®] to 5 litres of PRO GRIP BONDING LIQUID[®]

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9. It is very important to allow for differential movement in all tiling applications so the inclusion of tile panel movement joints, structural movement joints and perimeter joints is essential.

GROUTING

1. Allow at least 24 hours before grouting can commence.
2. Ensure that all adhesive is removed from the joints
3. Grout with PRO GRIP WATERPROOF GROUT[®] available in various colours.

TECHNICAL DATA

Non-hazardous	Non-flammable, freeze and thaw resistant
Initial setting time	± 6 hours at 25°C and 50% humidity
Final Setting Time	±24 hours at 25°C and 50% humidity
Correction Time	±25 minutes at 25°C and 50 %humidity
Open time	±20 minutes at 25°C and 50% humidity
Pot life	±3 hours at 25°C and 50% humidity
Temperature	Resistant up to 100°C
Storage	Store dry
Shelf life	9 months in dry moderate conditions
Coverage per 20kg	±2,2m ² using a 22mm notched trowel ±3,8m ² using a 10mm notched trowel ±6m ² using a 6mm notched trowel
Packaging	20 kg

PRECAUTIONS

1. Ensure that the above instructions are adhered to at all times and do not adulterate the product in any way as this could result in failure.
2. Rubber gloves should be used when applying PRO GRIP FLEXIGRIP ADHESIVE[®]. In the event of irritation, rinse skin under cold water. Consult a doctor if irritation persists.
3. Keep PRO GRIP FLEXIGRIP ADHESIVE[®] away from pets and children.
4. Do not ingest and do not empty surplus adhesive down drains.

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