



PRO GRIP

STONE & GLASS MOSAIC ADHESIVE

TECHNICAL DATA SHEET

PURPOSE

PRO GRIP STONE & GLASS MOSAIC ADHESIVE® is a specially designed high strength cement based polymer modified adhesive recommended for fixing and grouting of stone, glass and reconstituted stone mosaics onto all types of cement based substrates and pre-primed surfaces. PRO GRIP STONE & GLASS MOSAIC ADHESIVE® is suitable for both wall and floor applications, for installing tiles in intermittently wet areas as well as in underwater conditions i.e. swimming pools and showers. This product includes “MILDEW BLOCK” which actively protects against the growth of mildew and algae. Due to the fine nature of this adhesive, it is also suitable for use as a grouting compound whenever it’s antimicrobial properties are required e.g. showers, bathrooms, etc. This product can be used for interior and exterior applications.

MIXING INSTRUCTIONS



1. Add 1.75 lt of water to a suitable container.
2. Slowly add 5 kg of the product.
3. Mix to a creamy consistency. The use of an electric drill and paddle is recommended to ensure thorough mixing.
4. Use within 2 hours. If the product thicken DO NOT ADD MORE WATER – rather stir thoroughly to extend pot life.

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)

*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).

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

- a. Direct bedding onto new brick 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

This adhesive is designed to bond and joint the tiles in one step. Therefore, apply sufficient adhesive to the substrate such that the joints are filled with adhesive once the mosaic tiles have been properly bedded. Fill any hollows or dents in the joints with additional adhesive if necessary. As a guide, a 5 kg bag adhesive will cover approximately 0.8 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.

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8. For heavy duty strength, replace mixing water with PRO GRIP BONDING LIQUID[®] in the ratio of 20 kg PRO GRIP STONE & GLASS MOSAIC ADHESIVE[®] to 5 litres of PRO GRIP BONDING LIQUID[®]

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

Grouting is usually performed with the same product. However, if a different colour grout is required, proceed as follows:

1. Remove any excess adhesive from the joints while the adhesive is still wet.
2. Allow at least 24 hours to the adhesive to set before grouting can commence.
3. Grout with PRO GRIP WATERPROOF GROUT[®] 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	± 20 minutes at 25°C and 50% humidity
Open time	± 20 minutes at 25°C and 50% humidity
Pot life	± 2 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	± 0.8m ² using a 10mm notched trowel ± 1.5m ² using a 6mm notched trowel
Packaging	5 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 STONE & GLASS MOSAIC ADHESIVE[®]. In the event of irritation, rinse skin under cold water. Consult a doctor if irritation persists.
3. Keep PRO GRIP STONE & GLASS MOSAIC ADHESIVE[®] away from pets and children.
4. Do not ingest and do not empty surplus adhesive down drains.

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