

SmartGrip TG

Cementitious Tile Grout

SmartGrip TG is a cementitious grout designed for use in most types of ceramic tile and natural stone applications. **SmartGrip TG** consists of high quality Portland cement, fine fillers, a synthetic resin and other additives. **SmartGrip TG** is pre-packed and can be used immediately with the addition of water.



FIELDS OF APPLICATION

Grouting of joints (up to 3 mm wide) between ceramic wall and floor tiles, fully vitrified tiles, mosaics, marbles, granites, slates and terrazzo in:

- Dry or periodically wet areas
- Interior and exterior areas

BENEFITS

- No cracking, powdering or flaking
- Easy to install
- Non-staining, colour fast
- Consistent quality

TECHNICAL DATA (under laboratory conditions)

Please refer to **SmartGrip TG** Colour Chart for available colours.

PROPERTY	TYPICAL RESULTS
Dry Bulk Density (Powder)	1000 kg/m ³
Mix Consistency	Creamy Paste
Pot life	1 hour
Shrinkage (EN 12808-4)	≤ 2 mm/m
Compressive Strength after dry storage (EN 12808-3)	15 N/mm ² (min) 35 N/mm ² (max)
Abrasion Resistance (EN 12808-2)	≤ 2000 mm ³
Aging Resistance	Excellent
Water Absorption (EN 12808-5)	After 30 minutes ≤ 2 g After 240 minutes ≤ 5 g
Flexural Strength after dry storage (EN 12808-3)	≥ 3.5 N/mm ²
Resistance to mould growth (BS 5980: 1980, APP B)	Good

SURFACE PREPARATION

- After installing tiles, wait for at least 24 hours before grouting joints up to 4 mm. In winter, waiting time may be prolonged depending on site conditions.
- Ensure all loose material, hardened tile adhesive material and other cement contaminants on tile surface / tile edges are removed before grouting work.
- Ensure that there is no ponding water; use a sponge to soak up excess water.

MIXING

- Slowly add 1 bag (20 kg) of **SmartGrip TG** with approximately 6.5 - 6.8 litres of clean water.
- Mix for 3 minutes with a slow speed electric mixer of about 400 rpm, attach with suitable helical spiral shaped mixer head to achieve a homogeneous mix.
- Mix thoroughly to achieve a thick creamy sagged soft paste.
- Allow mix to stand for 1 - 2 minutes, then remix for another minute.
- It is possible that the water content per bag may vary slightly for mixing into workable consistency should be non-sagged and creamy soft paste.

DISCLAIMER

All information was prepared carefully, using current references available to us. Information provided is to the best of our knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself/ herself as to the suitability and completeness of information provided here for their intended use. We do not accept liability for any loss or damage that may occur from the use of this information.

PLACING

Grouting Sequence

- Spread and push the soft paste into tile joints with a rubber float in diagonal directions to the tile grout lines. This ensures joints are completely filled. Improperly grouted joints containing air void would cause sinking of grout material and cracking of tile grout.
- Remove excess material with edges of rubber float and work the float in diagonal directions as work progresses. Use a gloved finger to run along the joints to ensure perfectly smooth and even finishing.
- Once the grout is firm, clean the tile surface with damp but not wet sponge / cloth.
- All grout joints shall be uniformly finished. Cushion edge tile shall be finished evenly to the depth of cushion.
- Allow grout material to dry and set for about 2 - 4 hours. In the final cleaning step, carefully polish tile surface with a clean soft cloth or sponge pad to remove the powdery haze on tile surface and the grouting operation is completed. Do not use water to wash the grouted tile surface at this stage as the grout is still young. The dry set time may be longer in colder temperature and humidity conditions.

FINISHING AND CURING

- Do not use strong acid tile cleaning chemical available commonly as it will damage the grout material.
- Protect installation from adverse weather and loading for at least 24 hours. Special properties like physical strength and water resistance of grout are fully effective after 14 days.

OTHER INFORMATION

- Construction site conditions could affect final colour of coloured tile grouts. Trial a small area at site before actual installation.

COVERAGE / YIELD

- Every 20 kg bag of **SmartGrip TG** will yield about 13.5 litres of grout.
- Typical coverage is about 0.3 kg/m² (for 1 mm joint width and 7 mm thickness).

PACKAGING & STORAGE

SmartGrip TG is supplied in 20 kg bags and has a shelf life of 12 months if stored in a cool dry place in sealed packaging with sheltered protection from rain and sunlight.

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