



SmartGrip 511

Cementitious Tile Adhesive - Class C1T

SmartGrip 511 is a cementitious adhesive for ceramic tiles. It allows for quick and easy tile installation without any prior soaking of the tiles in water. **SmartGrip 511** may be used for tiling of interior and exterior areas and is capable of bonding ceramic tiles to a wide range of substrates. **SmartGrip 511** is premixed and can be used immediately with the addition of water and is suitable for both vertical and horizontal installation at a thickness of 3 - 6 mm. **SmartGrip 511** is available in Grey or White colour.

FIELDS OF APPLICATION

For installation of ceramic tiles of every type (up to 600 mm x 600 mm) on:

- Plaster and mortar
- Lightweight concrete
- Brickwork, clay blocks
- Natural stone surfaces

BENEFITS

- Easy to use
- Excellent bond strength
- Long open time
- Non-corrosive and Non-toxic
- Low emission and low toxicity (low VOCs)

TECHNICAL DATA

PROPERTY	TYPICAL RESULTS
Bulk Density	1300 kg/m ³
Mix Consistency	Creamy paste
Pot Life	1 - 2 hours
Adjustability	15 minutes
Ready for Traffic	24 hours
Damp Resistance	Good
Aging Resistance	Excellent
Resistance to mild acids / alkali	Fair
Tensile Adhesion Bond Strength @ 28 days	> 0.50 N/mm ²
Tensile Adhesion Bond Strength @ 28 days (After Water Immersion)	> 0.50 N/mm ²
Slip Resistance	< 0.50 mm
Coverage per bag	- 0.6 m ² /kg/mm

• All the data shown are based on controlled laboratory test (T=27±2°C and RH=60%)

SURFACE PREPARATION

- Substrates must be sufficiently aged before tile installation. Concrete surfaces must be at least 28 days old. For lightweight blocks, the wall must be sufficiently cured and treated with a moisture sealer.
- Ensure that substrate is free from oil, dust, grease, laitance or other contaminants.
- Dampen substrate (if it is highly absorbent) before spreading **SmartGrip 511**.
- Defective and unsound substrate must be repaired prior to tile installation.

MIXING

- Add 25 kg of **SmartGrip 511** to 6.0 - 7.0 litres of clean water. Mix thoroughly using a power mixer until a creamy paste is achieved.
- Allow the mix to react for a few minutes and then thoroughly re-mix before using.

PLACING

- Spread the adhesive onto the substance using a 6 mm x 6 mm notched trowel for the installation of wall tiles up to 150 mm x 150 mm.
- For the installation of floor tiles or wall tiles larger than 150 mm x 150 mm use a 10 mm x 10 mm to a 12 mm x 12 mm notched trowel.
- Tiles with lugs, grooves or an uneven back must initially be butter coated with the adhesive, in addition to the adhesive being trowelled onto the substrate.
- A 6 mm x 6 mm notched trowel can be used to lay mosaic tiles.
- The recommended minimum final bed thickness is 3 mm.
- Do not spread more than 1 m² of adhesive at any one time.
- Press tiles firmly into position before the adhesive skins, ensuring that all the tiles are well bedded and that no voids occur under the tiles.
- Occasionally, in order to ensure that full coverage is being maintained, a tile should be removed, the adhesive coverage noted and the tile be relaid accordingly.
- Surface skin-overs can be checked by placing the tip of your finger lightly onto the tile adhesive bed. If the adhesive does not adhere to your finger, surface skin-over has already occurred. Re-trowel the adhesive bed in the opposite direction to break the skin.

CURING & PROTECTION

- Tiles laid with **SmartGrip 511** must be protected from adverse weather conditions and loading for at least 24 hours.
- Allow adhesive to set for 24 hours before grouting with **SmartGrip TG**.

COVERAGE

SmartGrip 511 coverage is about 5 - 6 m² per 25 kg bag using a 6 mm x 6 mm square notched trowel (3 mm continuous film thickness).

PRECAUTIONS

- Avoid eye and skin contact as the product is alkaline.
- Gloves, goggles and dust mask should be worn.
- Avoid inhalation of dust during mixing.
- Wash thoroughly after handling.
- In case of eye contact, flush with plenty of clean water. Seek medical help immediately.

PACKAGING & STORAGE

SmartGrip 511 is supplied in 25 kg bags and has a shelf life of 12 months if stored in a cool and dry place in sealed packing with sheltered protection from rain and sunlight.

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.