

SmartGrip 532 Plus FS

Fast Set High Performance Cementitious Tile Adhesive - Class C2FTES1

SmartGrip 532 Plus FS is a single component fast setting high performance polymer enhanced, flexible cementitious adhesive.

SmartGrip 532 Plus FS is designed for tiling of both interior and exterior areas for wall and floor to a wide range of substrates, including swimming pool areas. It is ideal for areas where fast return to service is critical such as commercial malls, pedestrian walkways or public premises where trades need to access tiled areas quickly.

SmartGrip 532 Plus FS performance may be upgraded by replacing the clean water used in mixing with SmartGrip Plus-100 to enhance flexibility and water resistance. **SmartGrip 532 Plus FS** is available in Grey or White color.



TECHNICAL DATA (under laboratory conditions)

SmartGrip 532 Plus FS is tested to BS EN1348, BS EN1346, BS EN 12004 and EN 12002 which exceeds requirements for C2FTES1 classification

FIELDS OF APPLICATION

For installation of wall and floor tiles such as mosaic, ceramic, fully vitrified, porcelain, quarry tiles and all types of natural stone materials on:

- Concrete
- Rendered brick and block wall
- Precast Drywall
- Tile Overlayment, Fibre Cement and plasterboard application with addition of SmartGrip Plus-100
- Waterproofing membrane surfaces
- Interior & Exterior Walls and floors

BENEFITS

- Ease of use (only water required to mix)
- Excellent adhesion strength and flexibility
- Good deformability
- Water resistant (suitable for wet areas such as swimming pools & toilets)
- No pre-soaking of tiles required
- Fast setting property allows light foot traffic after 4 hours

PROPERTY	TYPICAL RESULTS
Tensile Adhesion Bond Strength	
@ 6 hours	≥ 0.3 N/mm ²
@ 24 hours	≥ 0.5 N/mm ²
@ 28 days	≥ 1 N/mm ²
Tensile Adhesion Bond Strength After Water Immersion @ 28 days	≥ 1 N/mm ²
Tensile Adhesion Strength After Heat Ageing @ 28 days	≥ 1 N/mm ²
Open Time	
@ 10 minutes	≥ 0.5 N/mm ²
@ 20 minutes	≥ 0.5 N/mm ²
@ 30 minutes	≥ 0.5 N/mm ²
Deformity	≥ 2.5 mm
Slip Resistance	< 0.5 mm
Pot Life	40 – 60 minutes
Density of Mix	1300 – 1600 kg/m ³
Working Time	approx 30 minutes

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.

SURFACE PREPARATION

- All substrates must be sufficiently aged prior to tile installation. Concrete surfaces must be at least 28 days old. For lightweight blocks, the drywall must be sufficiently cured and treated with a moisture sealer.
- Ensure that substrates are free of any oil, dust, grease, laitance or other possible contaminants.
- Dampen substrate (if it is highly absorbent) before spreading **SmartGrip 532 Plus FS**.
- Defective and unsound substrates must be repaired prior to installation of tiles.

MIXING

- Add a 25 kg bag of **SmartGrip 532 Plus FS** to 6.0 – 6.75 litres of clean water. Mix thoroughly using a power mixer until a creamy paste suitable of consistency is achieved.
- Allow the mix to react for a few minutes and then thoroughly re-mix before application.
- Do not use or add water to tile adhesives that has been left unused for more than the recommended pot life or has begun to set.

PLACING

- Spread the adhesive onto the substrate using a 6 mm x 6 mm notched trowel for the installation of wall tiles up to 200 mm x 200 mm.
- For the installation of floor tiles or wall tiles larger than 200 mm x 200 mm, use a 10 mm x 10 mm to 12 mm x 12 mm notched trowel.
- Tiles with lugs, grooves, uneven backs and large format tiles must be better coated with a layer of tile adhesive on the rear of the tile in addition to the adhesive being trowelled on to the substrate to improve adhesion.
- The recommended minimum final bed thickness is 3 mm. However, for heavy duty usage, the minimum thickness shall be 5 – 6 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 laid back accordingly.
- Do not soak tile prior to tiling.
- Allow adhesive to set for at least 4 hours before grouting with SmartGrip TG color grout.

CURING & PROTECTION

- Tiles laid with **SmartGrip 532 Plus FS** must be protected from adverse weather conditions and loading for at least 24 hours.

COVERAGE

- **SmartGrip 532 Plus FS** coverage is about 1.2 kg/m² per mm thickness.

Trowel Size (mm)	Coverage (kg/m ²)
6 mm x 6 mm notched trowel	approx 3 – 4 kg/m ²
10 mm x 10 mm notched trowel	approx 5 – 6 kg/m ²
12 mm x 12 mm notched trowel	approx 7 – 8 kg/m ²

CLEANING

- Excess tile adhesive on tools may be cleaned with water before the mortar sets.

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 eye contact, flush with plenty of clean water. Seek medical help immediately.

PACKAGING & STORAGE

SmartGrip 532 Plus FS is supplied in 25 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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