

# Cemfix TBG

High strength, thick-bed tiling screed



## Description

Cemfix TBG is a one component blend of cement, well graded aggregates and special additives used to create screeds for the installation of external block stone paving and bricks, it is also applied as a thick-bed screed followed by a slurry layer to fix stones, granites, marbles or any other type of tiles.

Cemfix TBG is used along with Cemafill Stone grout to create architectural stone paving with high durability and resistance to environmental conditions.

## Applications

Cemfix TBG is used as an installation screed for natural stone, granite and marble architectural flooring in public areas, roads, pavements, parking lots and pedestrian crossings. It is suitable for use with:

- ▲ Self-locking blocks.
- ▲ Small blocks.
- ▲ Bricks.
- ▲ Pre-casted stones, ceramic, marbles, granite and natural stones.
- ▲ Architectural pavers.

## Advantages

- ▲ High compressive strength.
- ▲ Good water resistance.
- ▲ High bond strength.
- ▲ Ready mixed, just requires the addition of water.
- ▲ Suitable for internal and external applications.

## Standards

Meets the exposure classes XF3, XF4 and XS3 according to EN206-1:2006 recommended limiting values.

## Method of Use

### Surface Preparation

All surfaces must be clean, dry and free from dust, oil, grease, paints or any loose material. Concrete and cement based substrates must be sufficiently cured and dimensionally stable. Allow time for shrinkage and structural strain movements. Curing compounds and sealers, if present, must be removed by mechanical means.

## Technical Properties. W/P = 0.1

Colour:	Grey
Fresh wet density:	2.1 ± 0.1 g/cm <sup>3</sup>
Maximum aggregate size:	6 mm
Compressive strength:	≥ 20 MPa @ 1 day EN 13892-2 ≥ 50 MPa @ 28 days
Flexural strength:	≥ 2 MPa @ 1 day EN 13892-2 ≥ 6 MPa @ 28 days
Working time:	130 - 150 min @ 25°C
Thickness of application:	30 mm – 100 mm

## Priming

It is not usually necessary to prime absorbent surfaces. However, to ensure satisfactory bonding, the prepared surface should be dampened down with water.

## Mixing

Mix the 25 kg bag of Cemfix TBG with 2 - 2.5 litres of water using a heavy duty slow speed drill-paddle assembly or concrete mixer for mixing. Mix properly until a homogenous mix with zero-slump consistency is achieved. The amount of water should be minimal to attain the optimum properties of the bedding screed.

*Note: It is recommended that in hot weather application, chilled water is used to extend the working time of the mixed material.*

## Application

Spread the mixed material over the surface in a uniform thickness, but in small areas at a time. Make sure that the consistency of the mortar remains the same in order to maintain its characteristics.

If the flooring is made from slabs or large non porous tiles, before laying the stone on the fresh Cemfix TBG installation layer, apply a layer of bonding slurry made by mixing (1 part Cempatch SBR100: 1 parts OPC cement by weight), or approximately (1.4 part Cempatch SBR100: 1 parts OPC cement by volume).

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Pour the properly mixed slurry over the levelled bedding screed whilst wet at a thickness of 2 to 3 mm and immediately install the tile or stone. Lay the stone in the pattern required with a 5 to 15 mm gap around each piece.

After laying the stone on the zero-slump consistency mix, wet the flooring with water to hydrate the installation layer and tamp the surface of the stone.

Before pouring the grouting mortar into the joints, sprinkle the surface of the stone with water, clean the joints and remove any freestanding water and uneven or loose areas.

For grouting the joints, Cemafill Sone is recommended to be applied the same day of installing the stone, before the installation layer has completely set, at that is in order to form a monolithic flooring.

If required by the surrounding conditions (high temperatures, rain, low temperatures, etc.), once grouting has been completed, protect the flooring for at least 12 hours after application with a suitable protective or anti-evaporation system, in order to prevent it from drying out too quickly and to keep the product at the correct temperature.

Protect the tiled surface from light traffic for at least 24 hours.

## Cleaning

All tools should be cleaned immediately after finishing by water.

## Packaging

Cemfix TBG is available in 25 kg bags.

## Yield

Approximately 13 litre per 25 kg bag.

## Consumption

**Cemfix TBG:** Approximately 58 kg/m<sup>2</sup> for 30 mm of thickness.

**Cempatch SBR100:** Approximately 2.3 ltr/m<sup>2</sup> for 3 mm thickness of slurry.

## Storage

Cemfix TBG has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

## Cautions

### Health and Safety

As Cemfix TBG contains Portland cement and sand, Cemfix TBG may cause irritation to skin or eyes. In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

For further information refer to the Material Safety Data Sheet.

### Fire

Cemfix TBG is nonflammable.

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- ▲ Structural strengthening.

#### Note:

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