

COSTAR TILE FIX 30

C2TES1 High Performance, Waterproof, Flexible Cementitious Tile Adhesive

Description

Costar Tile Fix 30 is a high-performance, waterproof tile adhesive in powder form, reinforced with synthetic resin based chemicals delivering increased adherence, high flexibility, non-slip, extended open time and deformable properties. It is particularly used for fixing all types of tiles and natural stones like very large ceramic/vitrified tiles, porcelain tiles, mosaic, composite, large marbles and granite etc. on every type of walls and floors (plaster or anhydrite substrates).

Benefits

- Anti-dropping performance (Non-slip/excellent initial adherence)
- Long open time; allows rectification
- Rheologically improved with high stability and excellent performance
- Highly recommended for large and heavy format tiles
- Deformable; type S1 according to EN 12004
- Excellent Waterproofing properties; adding a bonus benefit
- Polymer/resin modified
- Extra added flexibility thereby resisting stress caused by thermal expansion and contraction of bonding layers.
- Easy to use with excellent workability and thixotropic consistency

Areas of Use

- Wall tiling of high rise building with non-adhesive force requirement, large areas with intense traffic.
- Tiling floors with under floor heating, cooling chambers and overlapping.
- Laying tiles over cementitious waterproofing.
- In fixing natural and artificial stones such as marble, travertine etc.
- Tiling of interior and exterior facades of the building which are exposed to outside weather conditions.
- In tiling of sound surfaces of concrete and non-sand surfaces such as; gypsum bond, particle board, plywood and other large scale stones.
- Bonding of tiles on existing tiles
- Tiling of swimming pool
- Interior painted walls - if the paint coating is completely bonded and sound
- All type of low and high absorption tiles
- Suitable for both vertical and horizontal application

Appearance

Grey/White Powder

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Application

■ Surface Preparation

Surface must be cleaned from any loose particles, dust, grease, oil, scale and rust. The curvatures/slopes on horizontal and vertical surfaces should be leveled with a bedding/ repair mortar Costar Repair Mortar 10 or Costar Repair Mortar 20

■ Product Preparation

20Kg of Costar Tile Fix 30 should be mixed with 4-4.5 liters of water. Add water into a clean container and sprinkle Costar Tile Fix 30 slowly into the liquid while mixing continuously until a smooth, lump free mix is obtained. Always add powder to liquid. The mortar should then be left to rest for 5 minutes and the mixing process should be repeated after until the desired consistency is achieved.

■ Placing The Tiles

A thin layer of Costar Tile Fix 30 should be applied onto the surface. For tiles up to 60×60 cm in size, 12mm trowel is recommended. To ensure no voids occur and full coverage of adhesive is achieved, tile should be pressed into adhesive giving twisting and front and back sliding motion.

In order to compensate for uneven surfaces or tiles with uneven thickness, in addition to applying adhesive on substrate, the rear of the tiles should also be applied with Costar Tile Fix 30.

■ Filling the Joints:

Grouting should commence not before 24 hours with Costar Premium Tile Grout.

■ Composition:

Product based on high resistance cement, selected aggregates, additives and synthetic resins that guarantee a high bonding strength, workability and resistance to ageing.

Notched-Trowel Panel:

TILE FORMAT	NOTCHED TROWEL	BONDING
<100cm ²	U4 (4 x 4 x 4)	Single
<450cm ²	U6 (6 x 6 x 6)	Single
<900cm ²	U6 (6 x 6 x 6) / U9 (9 x 9 x 9) or 10	Double-Single
>900cm ²	U9 (9 x 9 x 9) or 10	Double

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Technical Information

Tensile Adhesion Strength	Standard Condition ≥ 1.0 N/mm ² (BS EN 1348:2007) Heat Ageing ≥ 1.0 N/mm ² Water Immersion ≥ 1.0 N/mm ² Freeze Thaw ≥ 1.0 N/mm ²
Transverse deformation	2.5 mm \leq S1 Classification \leq 5.0 mm, S1 Classified (BS EN 12002:2008) C2TEUNE (EN 12004:2008)
Slip Resistance	≤ 0.5 mm (EN 1308:1999)
Open time	≥ 0.5 N/mm ² at 30 minutes (EN 1346:1997) Open time is approximately 30 minutes under normal temperature and humidity conditions. Under unfavourable conditions, the open time might be shorter
Adjustment time	Once the tiles are placed into the mortar, they can be adjusted for ~ 30 minutes (at +20 °C).
Set Time	18 – 24 hours
Layer Thickness	3 mm min. / 15 mm max.
Ambient Air Temperature	+5 °C min. / +40 °C max.
Substrate Temperature	+5 °C min. / +40 °C max.
Consumption	This depends on the level, profile and surface roughness of the substrate, the size of the tiles and the technique of placing (simple placing or "back"-buttering). As a guide, in kg of powder per m ² in flat surfaces: Mosaics and small tiles 2.0–4.5 kg/m ² Normal size tiles (20 cm x 20 cm) 4.5–9.0 kg/m ² Large size tiles and on external floors 9.0–13.5 kg/m ² (60 cm x 60 cm & above) The information above may only serve as a guideline. It is highly recommended to run a trial on site to determine the actual coverage and consumption per m ² .
Applied Product Ready for Use	At +25 °C Before jointing works Min. 24 hours Before opening to light foot traffic Min. 24 hours opening to full traffic Min. 7 days
Density	Fresh mortar density: ~ 1.40 kg/l (at +25 °C)
Maximum Grain Size	Dmax: 0.4 mm

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Packaging

20kg pack

Storage

12 months when kept in a dry and closed area stacked in loads of maximum 5 bags, away from freezing temperatures.

Standard

EN 12004: 2008

Classification

C2TES1

Specific gravity

1.18 -1.19 g/cc

Attention

- Additional water should not be added to the mix after the mixing process is completed.
- Ready to use mortar should be applied within an hour.
- Fixing of the les should be finished in 20 minutes following the application of the mortar onto the surface.
- Remaining product should be kept closed and airtight in its original packaging
- Joint Filling applications should not start before 24hours for vertical joints ad 48 hours for horizontal joints
- Tools must be cleaned with water before residues fully cure

Attention

- In case of contact with skin and eyes, wash with plenty of water.
- Protective mask should be worn during the preparation of the product.

Warranty

The information and recommendations relating to the application of Costar products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the stated recommendations in the product datasheets. Whilst Costar endeavors to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. The user of the product must test the product's suitability for the intended application and purpose. Costar reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request

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