

# COSTAR TILE FIX 30 FLEX

## C2TES2 High Performance, Waterproof, Flexible Cementitious Tile Adhesive

### Description

Costar Tile Fix 30 Flex is a two-component high-performance tile and stone adhesive, which can be used for almost all types of tiles, over almost all types of substrates including green and moisture-sensitive marble & agglomerates. Costar Tile Fix 30 Flex is specially formulated, for fixing large format tiles & stones on drywalls and plywood.

### Benefits

- Moisture free system: Does not damage wooden substrates or tiles, and water sensitive stone.
- Very High Bond strength 2 Component adhesive: prevents wastage, as the only quantity which is required has to be mixed.
- Easy to use
- Fast Setting
- Can do cladding up to 50ft. height, without any supporting bracket. Under tile treatment of stone (to prevent discolouration) is not required.
- Can be used for fixing moisture sensitive stones, like green marble.
- Reaction bases system, and thus not harshly affected by temperature & humidity.
- Can be used on touch dry surface of the concrete. Do not need to wait for the substrate to get completely dry.
- For fixing tiles and stones on dry wall & plywood.
- Excellent Waterproofing and water resisting properties; adding a bonus benefit

### Areas of Use

- Wall tiling of high rise building with non-adhesive force requirement, large areas with intense traffic.
- Adhesive for large format stones on drywall and plywood.
- Suitable for tiling wet areas
- 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

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## Appearance

Grey/White Powder

## 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 levelled with a bedding/ repair mortar (Costar Repair Mortar 10 or Costar Repair Mortar 20)

### ■ Product Preparation:

20Kg (Part A) of Costar Tile Fix 30 Flex should be mixed with 6 litres (Part B) of the polymer latex. Add water into a clean container and sprinkle Costar Tile Fix 30 Flex 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 later until the desired consistency is achieved.

### ■ Placing the Tiles:

A thin layer of Costar Tile Fix 30 Flex 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 Flex.

### ■ 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 <sup>2</sup>	U4 (4 x 4 x 4)	Single
<450cm <sup>2</sup>	U6 (6 x 6 x 6)	Single
<900cm <sup>2</sup>	U6 (6 x 6 x 6) / U9 (9 x 9 x 9) or 10	Double-Single
>900cm <sup>2</sup>	U9 (9 x 9 x 9) or 10	Double

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## Technical Information

<b>Tensile Adhesion Strength</b>	Standard Condition $\geq 1.0 \text{ N/mm}^2$ (BS EN 1348:2007) Heat Ageing $\geq 1.0 \text{ N/mm}^2$ Water Immersion $\geq 1.0 \text{ N/mm}^2$ Freeze Thaw $\geq 1.0 \text{ N/mm}^2$
<b>Transverse deformation</b>	2.5 mm $\leq$ S2 Classification $\leq$ 5.0 mm, S1 Classified (BS EN 12002:2008) C2TEUNE (EN 12004:2008)
<b>Slip Resistance</b>	$\leq 0.5 \text{ mm}$ (EN 1308:1999)
<b>Open time</b>	$\geq 0.5 \text{ N/mm}^2$ 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
<b>Adjustment time</b>	Once the tiles are placed into the mortar, they can be adjusted for $\sim 30$ minutes (at $+20 \text{ }^\circ\text{C}$ ).
<b>Set Time</b>	18 – 24 hours
<b>Layer Thickness</b>	3 mm min. / 15 mm max.
<b>Ambient Air Temperature</b>	$+5 \text{ }^\circ\text{C}$ min. / $+40 \text{ }^\circ\text{C}$ max.
<b>Substrate Temperature</b>	$+5 \text{ }^\circ\text{C}$ min. / $+40 \text{ }^\circ\text{C}$ max.
<b>Consumption</b>	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 $\text{m}^2$ in flat surfaces: Mosaics and small tiles $2.0\text{--}4.5 \text{ kg/m}^2$ Normal size tiles (20 cm x 20 cm) $4.5\text{--}9.0 \text{ kg/m}^2$ Large size tiles and on external floors $9.0\text{--}13.5 \text{ kg/m}^2$ (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 $\text{m}^2$ .
<b>Applied Product Ready for Use</b>	At $+25 \text{ }^\circ\text{C}$ Before jointing works Min. 24 hours Before opening to light foot traffic Min. 24 hours opening to full traffic Min. 7 days
<b>Density</b>	Fresh mortar density: $\sim 1.40 \text{ kg/l}$ (at $+25 \text{ }^\circ\text{C}$ )
<b>Maximum Grain Size</b>	$D_{\text{max}}$ : 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

C2TES2S

## 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

## Health and Safety

- 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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