

COSTAR TILE FIX 20 FLEX. C2TE

HIGH PERFORMANCE CEMENT BASED ADHESIVE WITH NO VERTICAL SLIP AND EXTENDED OPEN TIME WITH WATER RESISTING PROPERTIES. C2TE CLASSIFIED ACCORDING TO EN 12004

Description

Costar Tile Fix 20 Flex is a Cementitious adhesive made of mixed binders with an excellent workability and high adherence. It has no vertical slip and extended open time for fixing large sized Vittrified Tiles and regular sized Natural Stones with excellent water resisting properties. Suitable for interior and exterior pavements, interior claddings and base boards. Suitable for overlaying new pavements on top of a previously tiled floor and under floor heating flooring. Suitable for the placing for all kind of ceramic pieces, porcelain clay, normal sized natural stone: granite and marble. Suitable for plaster substrates and anhydrite.

Advantages

- 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 ceramic and vitrified tiles as well as regular sized natural stones.
- Excellent Waterproofing properties and water resisting 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, sidewalks added to heavy traffic.
- Laying tiles over cementitious waterproofing.
- In fixing regular sized 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.
- Bonding of tiles on existing tiles
- Tiling of swimming pool
- Interior painted walls - if the paint coating is completely bonded and sound
- In tiling of sound surfaces of concrete and non-sand surfaces such as; gypsum bond, particle board, plywood and other large scale stones.
- All type of low and high absorption tiles
- Suitable for both vertical and horizontal application
- Product recommended for the placement of grindings.
- Gluing of floors with under floor heating and overlays on interior floors.
- Suitable for sidewalks added to heavy traffic.
- Suitable for up to 40 x 40 cm pieces in exterior claddings, and up to 3m high.

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Call Us:
+9254348314

E-mail Us
Info@costarchem.com

Office Address:
5041 Mountaire Area, Antioch, California, USA

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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 of Costar Tile Fix 20 Flex should be mixed with 5 – 5.5liters of water. Add water into a clean container and sprinkle Costar Tile Fix 20 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 20 Flex should be applied onto the surface. For tiles up to 60x60 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 20 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 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) ó n10	Double-Single
>900cm ²	U9 (9 x 9 x 9) ó n10	Double

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Technical Information

Tensile Adhesion Strength	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 $\geq 1.0 \text{ N/mm}^2$ C2TEUNE (EN 12004:2008)
Slip Resistance	$\leq 0.5 \text{ mm}$ (EN 1308:1999)
Open time	$\geq 0.5 \text{ N/mm}^2$ 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
Adjustment time	Once the tiles are placed into the mortar, they can be adjusted for ~ 30 minutes (at $+20 \text{ }^\circ\text{C}$).
Set Time	18 – 24 hours
Layer Thickness	3 mm min. / 10 mm max.
Ambient Air Temperature	$+5 \text{ }^\circ\text{C}$ min. / $+40 \text{ }^\circ\text{C}$ max.
Substrate Temperature	$+5 \text{ }^\circ\text{C}$ min. / $+40 \text{ }^\circ\text{C}$ 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 $2.0\text{--}4.5 \text{ kg/m}^2$ 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 m^2 .
Applied Product Ready for Use	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
Density	Fresh mortar density: $\sim 1.40 \text{ kg/l}$ (at $+25 \text{ }^\circ\text{C}$)
Maximum Grain Size	Dmax: 0.4 mm

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.

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Specific gravity

1.18 -1.19 g/cc

Classification

C2TE

Standard

EN 12004: 2008

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 & 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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