

COSTAR TILE FIX 20 FLEX

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



PRODUCT 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 Vitrified Tiles and regular sized Natural Stones with excellent water resisting properties. Suitable for interior and exterior pavements, interior claddings and baseboards. 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
- Rheological enhanced 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; 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

AREA 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.

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 20 flex should be mixed with 5 liters of water.
- Add water into a clean container.
- Sprinkle Costar Tile Fix 20 flex slowly into the liquid Mix contiguously until a smooth, lump free and homogenous mix is obtained.
- Always add powder to liquid.
- The mortar should then be left to rest for 5 minutes. The mixing process should be repeated later until the desired consistency is achieved.



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Placing the Tiles:

A thin layer of Costar Tile Fix 20 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 20 flex.

Filling the Joints:

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

Composition:

Costar tile Fix 20 Flex Tile adhesive typically comprises Advance high grade binding cement, selected aggregate, and various additives like polymers for enhanced bonding, flexibility, and water resistance. These components create a strong adhesive paste used for fixing tiles onto surfaces.

TECHNICAL PROPERTIES

Packaging	20kg		
Appearance	Grey powder		
Shelf life	12 months from date of production		
Storage conditions	Product must be stored in original, unopened, and undamaged sealed packaging in dry condition and temperature between +5 °C and +35 °C.		
Mechanical properties (tensile strength)	Initial / dry condition	≥ 1.5 N/mm ²	
	After water immersion / wet condition	≥ 1.5 N/mm ²	
	After heat ageing	≥ 1.5 N/mm ²	
	After > 10 minutes, open time	≥ 1.5 N/mm ²	
	Vertical Slip (EN 1308)	(less than 0.5mm)	
	Transversal deformation	2.6 mm (greater than 2.5 mm)	(EN 1348), (EN 12002)
Mixing ratio	5 liters of water per 20kg bag of product		
Fresh mortar density	1.8 ± 0.2 kg/L		
Consumption	Consumption is dependent on the substrate, surface profile, roughness, and application technique. The following serve as a guide for a single adhesive layer:		
	Size of tile	Notched trowel size	Consumption
	small	6mm	~4 kg/m ²
	medium	8mm	~5 kg/m ²
	large	10mm	~6 kg/m ²
Ambient air temperature	+5 °C min. / +45 °C max.		
Pot life	~7hours	EN 12004-2 / ISO 13007-2	



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Open time	> 20 minutes	EN 12004-2 / ISO 13007-2
Adjust-ability time	~8 minutes	
Slip resistance	0.5 mm	EN 1308:2007
Shear adhesive strength	10 kN	BS 5980:1980

STORAGE AND SHELF LIFE

Protect from freezing, if frozen or crystallized, thaw gradually and stir to homogenous mixture. Shelf life in unopened original containers is 12 months when stored at 70°F (21°C).

STANDARD

Compiled with C2TE Class of EN 12004,

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 tiles should be finished in 20 minutes following the application of the mortar to the surface.
- Remaining product should be kept closed and airtight in its original packaging
- Joint Filling applications should not start before 24 hours for vertical joints and 48 hours for horizontal joints
- Tools must be cleaned with water before residues fully cure

HEALTH & SAFETY

- Please ensure that hand gloves and goggles are worn during installation
- Apply in ventilated areas, away from flames
- It is only important that during application and after application, standard safety procedures are done.
- Please consult current MSDS for product.
- For Professional Use only.

ADDITIONAL INFORMATION

Costarchem manufactures a complete range of construction chemical products which include:

- Concrete admixtures
- Waterproofing system
- Flooring system
- Cementitious and epoxy precision grouts
- Damp-proofing products
- Sealants and adhesives
- Repair and refurbishment systems

For more information on any of our products, please contact Costarchem global or regional office.

LEGAL NOTE

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