

# COSTAR TILE FIX 5. C1

Ready to use cementitious tile adhesive for bonding Ceramic/vitrified tiles C1 Classified According To EN 12004



## PRODUCT DESCRIPTION

Costar Tile Fix 5 is a high polymer modified formulated for fixing low porosity vitrified floor of normal size in internal and external areas.

The adhesive can be used for fixing ceramic tiles on floor of normal size in internal and external areas.

The adhesive can be used for fixing ceramic tiles on floor only and is suitable for dry areas for internal and external application.

This is also suitable for tile-on-tile application fixing vitrified tile on pre-existing ceramic tile floors.

## ADVANTAGES

- Very High Bond strength.
- The free-flowing product makes it easier to mix and apply, easy-to-use.
- Useful for bed thickness of 3-15mm. May go up to 15 mm in a limited extent for wall & floor application.
- Thixotropic formula - no sag, for the easy application on wall.
- Low VOC – For a healthy living.
- For installation of vitrified tiles on floor
- Suitable for Tile-on-tile application of vitrified tiles on pre-existing ceramic tile floors.
- Self-curing properties, this allow for no hassle application with minimum labor.
- No excessive hacking of the substrate required to achieve the required bonding.
- To be applied internally and externally on ceramic flooring.
- Suitable for ceramic tiles with a medium high absorption rate.
- Excellent initial adherence strength on both horizontal and vertical plane.
- Excellent Waterproofing properties adding a bonus benefit.

## AREA OF USE

- Laying tiles over cementitious waterproofing
- Tiling of interior and exterior facades of the building which are exposed to outside weather conditions.
- Bonding of tiles on existing tiles
- All type of low and high absorption tiles
- Suitable for horizontal application
- Suitable for normal sized ceramic and vitrified tiles
- For tiling of sound surfaces of concrete and non-sand surfaces such as; gypsum bond, particle board, plywood and other large scale stones.

## 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 5 should be mixed with 4.4 – 4.6 liters of water. Add water into a clean container and sprinkle Costar Tile Fix 5 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 5 should be applied onto the surface. To ensure no voids occur and full coverage of adhesive is achieved, tile should be pressed into adhesive giving twisting front and back sliding motion.

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In order to compensate for uneven surfaces or tiles or uneven thickness, in addition to applying adhesive on substrate, the rear of the tiles should be applied with Costar tile fix 5.

## Grouting Tile Joints:

Grouting should commence not before 24hours with Costar Premium Tile Grout or Costar Pro Joint Filler 10.

Apply grout paste to tiled surfaces working it well into the joints using a rubber tillers squeegee or a sponge-faced wood float.

## Composition:

Costar tile Fix 5 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.		
Tensile-adhesion strength	Initial / dry condition $\geq 1.0 \text{ N/mm}^2$ After water immersion / wet condition $\geq 0.5 \text{ N/mm}^2$ After heat ageing $\geq 0.5 \text{ N/mm}^2$ After > 10 minutes, open time $\geq 0.5 \text{ N/mm}^2$ (EN 12004-2 / ISO 13007-2 / IS 15477: 2019, Annex A)		
Mixing ratio	4.4 – 4.6 liters of water per 20kg bag of product		
Fresh mortar density	$1.8 \pm 0.2 \text{ kg/L}$		
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	~3 kg/m <sup>2</sup>
	medium	8mm	~5 kg/m <sup>2</sup>
	large	10mm	~6 kg/m <sup>2</sup>

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Ambient air temperature	+5 °C min. / +45 °C max.	
Pot life	~110 minutes	EN 12004-2 / ISO 13007-2
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 C1 Class of EN 12004

## 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

The information and recommendations relating to the application of Costarchem 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 Costarchem 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. Costarchem 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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*Performance As Promised*