

## TILE ADHESIVE TYPE C2FTES2 ACCORDING TO BS-EN 12004-1

Improved cementitious adhesive with fast setting, reduced slip, extended open time and highly deformable, for internal and external thin layer applications

### Applications

- External tiling of facades without size limits, with the maximum security and durability in aggressive climatic conditions
- Renovation onto ancient tiles or terrazzo without bonding layer
- Tiling without size limits over substrates with any kind of embedded heating systems
- For Internal and external floors, walls and ceilings

### Substrates

- Cement/lime renders
- Gypsum plasters (previously primed)
- Cementitious and calcium sulphate screeds (previously primed)
- Gypsum plasterboard, cementitious renderboard or timber board

- Concrete substrates
- Ceramic tile, terrazzo or timber ancient substrates
- Reinforced base coats in ETICS
- Non suitable for metal substrates

### Coatings

- Any kind of ceramic tiles with all absorption ranges (types I<sub>a</sub>, I<sub>b</sub>, II<sub>a</sub>, II<sub>b</sub> and III): earthenware ceramic or porcelain ceramic tiles, either glazed or unglazed, and porcelanic ceramic slabs
- Glass mosaic, terrazzo and natural and artificial stone
- Maximum tile size:
  - Whitout limits for floors, walls and ceilings, either for Internal or external applications

## TECHNICAL DATA

**Composition:** ordinary Portland cement, high alumina cement, calcium sulphate, selected limestone and siliceous aggregates, and, inorganic and organic admixtures

<b>Particle size:</b>	< 0,5 mm
<b>Bulk density in powder:</b>	1000±50 kg/m <sup>3</sup>
<b>Bulk density in fresh mix:</b>	1550±50 kg/m <sup>3</sup>
<b>Mixing water:</b>	28-30%
<b>Application thickness:</b>	3-10 mm
<b>Early tensile adhesion strength:</b>	> 0,5 N/mm <sup>2</sup> (after not more than 6 h)
<b>High initial tensile adhesion strength:</b>	> 1,0 N/mm <sup>2</sup>
<b>Durability for:</b>	
<b>High tensile adhesion strength after water immersion:</b>	> 1,0 N/mm <sup>2</sup>
<b>High tensile adhesion strength after heat ageing:</b>	> 1,0 N/mm <sup>2</sup>
<b>High tensile adhesion strength after freeze/thaw cycles:</b>	> 1,0 N/mm <sup>2</sup>
<b>Extended open time (tensile adhesion strength):</b>	> 0,5 N/mm <sup>2</sup> (after not less than 30 min)
<b>Tensile adhesion strength in over-tiling (CSTB):</b>	> 1,0 N/mm <sup>2</sup>
<b>Service time/Tensile adhesion strength (CSTB):</b>	> 1,0 N/mm <sup>2</sup> (after 18 h at 10°C)
<b>Shear adhesion strength after heat ageing (CSTB):</b>	> 2,5 N/mm <sup>2</sup>
<b>Transverse deformation:</b>	> 5,0 mm
<b>Slip:</b>	< 0,5 mm
<b>Pot life:</b>	> 90 min
<b>Adjustability time:</b>	> 30 min
<b>Grouting time:</b>	> 6 h
<b>Time for pedestrian traffic:</b>	> 6 h
<b>Reaction to fire:</b>	class E
<b>Dry consumption (6x6 square notched trowel):</b>	2,2-2,7 kg/m <sup>2</sup>

**Presentation:** 20 kg paper sacks. 960 Kg plastic pallets (48 sacks)

**Colour range:** grey and white

**Shelf life:** 1 year from the date of manufacture, in sealed containers and in dry locations

# CEMEX TILE TOP-FLEX



## Instructions for use

- Do not apply at temperatures lower than 5°C or higher than 35°C
- Do not apply in conditions of strong winds
- Do not add sand, cement or any other product that modifies the original formulation
- Once mixed, do not add additional water if the product is dry in the mixing vessel
- Do not exceed 10 mm layer thickness
- Select the kind of buttering (single or double) and trowel in accordance with the layer thickness and tile size
- To prevent tiles from slipping on vertical applications, the maximum tile size must be 40 kg/m<sup>2</sup> with a 3-5 mm layer thickness (6x6,8x8 or 10x10 trowel)
- On external facades with tiles with a weight greater than 40 kg/m<sup>2</sup>, or with a size longer than 30 cm, it is recommended to use mechanical anchors
- For gypsum plaster substrates, CEMEX IMPRIMACIÓN must be applied to harden the surface and avoid a possible adhesion failure due to insufficient surface strength of the plaster
- Avoid breathing the dust and do not allow it to come into contact with the eyes or skin. Consult the material safety data sheet for further information



### 1. Preparing the substrate

- Check that the substrate meets the following conditions: free from dust and other residues, dry, with no shrinkage and levelled

### 2. Mixing

- Dosage the recommended amount of water into a mixing bucket and gently add the powder to the water
- Stir until final consistency is achieved (with no lumps), with a mechanical mortar mixer at low revolutions
- Leave the mix to mature for 3-5 minutes

### 3. Application

- Slightly stir the mixture
- Spread a layer of product on the substrate, troweling with a notched trowel suitable for each use
- Apply the tiles with a slight back and forth cutting movement and perpendicular to the grooves, exerting pressure at the same time until they are completely flattened
- Leave a minimum distance of 1.5 mm between tiles

### 4. Cleaning

- Product residues can easily be removed with water before they harden