

CEMEX TILE TOP-FLEX

TILE ADHESIVE TYPE C2TES2 ACCORDING TO BS-EN 12004-1

Improved cementitious adhesive with normal 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_a, I_b, II_a, II_b 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: grey or white ordinary Portland cement, selected limestone and siliceous aggregates, and, organic admixtures

Particle size: < 0,5 mm

Bulk density in powder: 1125±50 kg/m³

Bulk density in fresh mix: 1450±50 kg/m³

Mixing water: 28-30%

Application thickness: 3-6 mm

High initial tensile adhesion strength: > 1,0 N/mm²

Durability for:

High tensile adhesion strength after water immersion: > 1,0 N/mm²

High tensile adhesion strength after heat ageing: > 1,0 N/mm²

High tensile adhesion strength after freeze/thaw cycles: > 1,0 N/mm²

Extended open time (tensile adhesion strength): > 0,5 N/mm² (after not less than 30 min)

Tensile adhesion strength in over-tiling (CSTB): > 1,0 N/mm²

Service time/Tensile adhesion strength (CSTB): > 1,0 N/mm² (after 3 days at 10°C)

Shear adhesion strength after heat ageing (CSTB): > 2,5 N/mm²

Transverse deformation: > 5,0 mm

Slip: < 0,5 mm

Pot life: > 6 h

Adjustability time: > 50 min

Grouting time: > 24 h

Time for pedestrian traffic: > 24 h

Reaction to fire: class E

Dry consumption (6x6 square notched trowel): 2,2-2,7 kg/m²

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

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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 6 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 loosening on vertical applications, the maximum tile size must be 40 kg/m² with a 3-5 mm layer thickness (6x6,8x8 or 10x10 trowel)
- On external facades with tiles with a weight per unit of surface area greater than 40 kg/m², or with a size greater than 60x60 (3.600 cm²), use mechanical anchors
- For gypsum plastered substrates, CEMEX IMPRIMACIÓN must be applied to consolidate the surface and avoid a possible adhesion failure due to insufficient plaster surface resistance
- 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 5-10 minutes

3. Application

- Lightly stir the mix
- Spread a layer of product on the substrate, trawling 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