

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

Lightweight improved cementitious adhesive with reduced slip, extended open time and highly deformable, for internal and external thin layer applications

Applications

- Specially tailored with “gel” technology, for a maximum workability performances and versatility of use
- External tiling of facades without size limits, with the maximum security and durability in aggressive climatic conditions
- 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
- Glass mosaic, terrazzo and natural and artificial stone
- Giant porcelanic ceramic slabs
- 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, lightweight fillers, and, inorganic and organic admixtures

Particle size: < 0,5 mm

Bulk density in powder: 850±50 kg/m³

Bulk density in fresh mix: 1100±50 kg/m³

Mixing water: 44-46%

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 6 d 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): 1,3–1,8 kg/m²

* Note: product with superior open time, higher than 60 minutes

Presentation: 15 kg paper sacks. 720 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 GEL-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 15 mm layer thickness
- Select the kind of buttering (single or double) and trowel in accordance with the layer thickness and tile size
- On external facades with tiles with a weight per unit of surface area greater than 40 kg/m², or with a size greater than 40x60 (2.400 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
- Do not apply to plastic, metal or timber
- 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.

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

2.

- 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.

- 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.

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