

TILE ADHESIVE TYPE C2TES1 ACCORDING TO BS-EN 12004-1

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

Applications

- Specially tailored with “gel” technology, for a maximum workability performances and versatility of use
- Placing of medium size tiles on facades
- Tiling over substrates with any kind of embedded heating systems
- For Internal and external floors, walls and ceilings

Substrates

- Large size masonry brick wall without rendering
- 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
- Maximum tile size:
 - No limits for Internal floors, walls and ceilings, with the exception of gypsum plasterboard, timber or surface embedded heating systems (≤ 90 cm)
 - 60 cm for external floors and walls, with the exception of concrete substrates and cementitious renderboard (≤ 45 cm)

TECHNICAL DATA

Composition: grey or white ordinary Portland cement, selected limestone and siliceous aggregates, lightweight fillers, and, inorganic and organic admixtures

Particle size:	< 0,3 mm
Bulk density in powder:	1100±50 kg/m ³
Bulk density in fresh mix:	1600±50 kg/m ³
Mixing water:	34-38%
Application thickness:	3-10 mm
High initial tensile adhesion strength:	> 1,0 N/mm ²
Durability for:	
High tensile adhesion strength after water immersion:	> 1,0 N/mm ²
High tensile adhesion strength after heat ageing:	> 1,0 N/mm ²
High tensile adhesion strength after freeze/thaw cycles:	> 1,0 N/mm ²
Extended open time (tensile adhesion strength):	> 0,5 N/mm ² (after not less than 30 min)
Tensile adhesion strength in over-tiling (CSTB):	> 1,0 N/mm ²
Service time/Tensile adhesion strength (CSTB):	> 1,0 N/mm ² (after 6 d at 10°C)
Shear adhesion strength after heat ageing (CSTB):	> 2,0 N/mm ²
Transverse deformation:	> 2,5 mm
Slip:	< 0,5 mm
Pot life:	> 6 h
Adjustability time:	> 45 min
Grouting time:	> 24 h
Time for pedestrian traffic:	> 24 h
Open time:	class E
Dry consumption (6x6 square notched trowel):	2,0-2,5 kg/m ²

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. 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