C2TE S2 CERAMIC TILE ADHESIVE

PRODUCT

C2TE S2 CERAMIC TILE ADHESIVE is a highly flexible one-component powder adhesive with extended open time and zero vertical slip, designed for bonding all types of ceramic tiles and glass mosaic.

Particularly suitable for bonding:

- Stoneware and porcelain stoneware.
- Glass mosaic.
- Porous wall coverings.
- Terracotta.
- Natural and artificial stone.
- Tile on tile.

Composition: pure natural hydraulic lime (NHL), selected organic and inorganic components.



FIELD OF APPLICATION

- Ceramic wall and floor coverings, indoors and outdoors.
- Suitable for façades with tiles larger than 40 x 40; for larger formats, use **C2TE S2 adhesive**.
- On walls, the weight of the tiles must not be ≥ 1 N/mm^2.
- On heated floors, the heating must be switched off during application and for the following seven days.
- Do not apply on wood, or on metal, rubber, PVC and linoleum surfaces.
- On highly absorbent floors or wall coverings, it is advisable to treat them with PRIMER CEMENT.

REMARKS

- Do not add any admixture to the mortar.
- On absorbent or porous surfaces and in very hot weather, dampen the substrate before applying the product.
- Treat critical areas (cracks, etc.) with fiberglass mesh.
- Drying time will vary depending on the prevailing temperature and humidity.

SUITABLE SUBSTRATES

Cement boards, screeds and renders, cured concrete screeds, vibrated or bush-hammered concrete, cellular concrete, brick or natural stone walls, radiant panels and underfloor heating systems, existing glazed ceramic, porcelain stoneware, terrazzo and natural stone floors, substrates in industrial premises or subject to heavy traffic (shopping centers), and cork, expanded polyurethane and plasterboard panels (dust-free), provided they are firmly fixed.

For floor and wall coverings, indoors and outdoors. Suitable for façades and swimming pools.

PUTTING INTO SERVICE

- Surfaces and floors can be put into service after 14 days. Walkable after 24 hours.
- Surfaces can be polished after 14 days.

CLEANING

- Stains from lime residues on ceramic tiles can be removed with a special detergent.
- Clean tools with plenty of water before the paste has dried completely.

SPECIAL PRECAUTIONS

This product contains cement. Avoid contact with eyes and skin, as well as inhalation of dust. Wear **rubber gloves and protective goggles**. Keep out of the reach of children.

Empty containers must be disposed of in accordance with current legislation.

This information reflects the current state of our knowledge and provides information about our products and their possible applications. Its purpose is therefore not to guarantee specific properties of the products or their suitability for a particular application. Any existing industrial property rights must be respected. Quality control parameters will be detailed in the specification sheet of each product.

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COLORS

White and gray.

CONSUMPTION

Single buttering: **3-4 kg/m^2**
Double buttering: **5-6 kg/m^2**

** These consumption figures may vary depending on the substrate.*

STORAGE

12 months from the date of manufacture, in original closed packaging, protected from the weather and humidity.

PACKAGING



Paper bags of 25 kg
Pallets of 48 bags

SUBSTRATE PREPARATION

- Substrates must be sound, dry, dust-free and free of paint, grease, lime, wax and anything else that could impair adhesion.
- The flatness of the substrate must not deviate by more than 3 mm, checked with a 2 m straightedge. Where flatness is uneven, repair the substrate with LEVEL self-leveling mortar (see technical data sheet).
- Substrates with low surface strength, which crumble within the first few millimeters of thickness, must be consolidated with PRIMER CEMENT TACK (see technical data sheet).
- On very dry or porous substrates and in hot or windy weather, we recommend lightly dampening the substrate. In extreme cases, apply a PRIMER CEMENT primer coat (see technical data sheet).
- The substrate and application temperature must be between 5 °C and 30 °C.
- Weather conditions can significantly alter the open time of the C2TE S2 adhesive once mixed.

TECHNICAL DATA

Appearance:	White powder
Mixing water:	± 27 % (± 6.75 L per 25 kg bag of white) ± 26 % (± 6.50 L per 25 kg bag of gray)
Bulk density of powder:	± 1.3 kg/dm^3
Non-slip:	Yes
Application temperature*:	Between +5 and +30 °C
Open time*:	> 40 min
Pot life*:	> 2 h
Foot traffic after*:	± 24 h
Toxicity/flammability:	No
Consumption:	± 1.3 kg per mm and m^2
Packaging:	25 kg bags
Storage:	1 year in closed bag, in a dry place
Final performance	
Initial adhesion after 28 days:	> 2 N/mm^2
Adhesion after heat aging:	> 2 N/mm^2
Adhesion after water immersion:	> 2 N/mm^2
Adhesion after freeze-thaw cycles:	> 2 N/mm^2
Alkali resistance:	Excellent
Oil resistance:	Excellent
Solvent resistance:	Excellent
Service temperature:	From -30 °C to +90 °C
Slip:	≤ 0.5 mm (UNE EN 1308)
S2 deformability (deformable):	≥ 2.5 mm and ≤ 5 mm (UNE EN 12002)

** Values obtained at 23 °C and 50 % R.H.*

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DIRECTIONS FOR USE



- Mix the adhesive with clean water, ± 6.75 L per 25 kg bag, both white and gray.
- Mix with a low-speed electric mixer (~500 rpm) until a homogeneous mass is obtained.
- Leave to rest for about 5 min and remix before application.

APPLYING THE ADHESIVE



C2TE S2 is applied with a suitable notched trowel, depending on the tile size and the characteristics of the tile back.

- For good adhesion, first apply a thin layer onto the substrate with the flat side of the trowel, then adjust to the appropriate thickness with the notched side, according to the type and size of the tile.
- Use the double buttering technique for outdoor applications, formats > 900 cm^2, floors subject to traffic or heavy loads, and swimming pools.

LAYING THE TILES



- Wet and wash the tiles with clean water only if the back is very dusty.
- Approximate pot life of the mix: > 2 hours.
- Place and press the tiles down to collapse the ridges and ensure good bonding. From time to time, check the tackiness of the paste. If a skin forms on the surface, re-comb the material with the trowel and continue working.
- Never wet the adhesive once a skin has formed, as the water creates a bond-breaking film.
- Installed coverings must not be exposed to rain or washing for 24 hours and must be protected from frost and strong sun for 5 to 7 days.
- Maintain tile spacing with spacers.

GROUTING AND SEALING

- Grout after 24 h on floors and after 6 hours on wall coverings.
- Respect expansion, contraction, subdivision and perimeter joints.
- Joints between tiles are mandatory and a minimum width of 2 mm is recommended. On façades, the recommended minimum width is 4 mm.

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SUBSTRATE TABLE

See the following table for the suitable substrates and the application according to tile surface area. Fields of application and substrates:

Substrate	Adhesive	Tile surface area	Notched trowel	Buttering (single / double)	Consumption
Smooth and even	**C2TE S2**	Mosaics up to 10 x 10	U4	Single	± 3 kg
		Up to 20 x 20	U6	Single	± 4 kg
		Up to 30 x 30	U8	Single	± 5 kg
		Over 60 x 40	U10-U12	Double	± 6 kg
Uneven	**C2TE S2**	Mosaics up to 10 x 10	U4	Single	± 3 kg
		Up to 20 x 20	U6	Single	± 5 kg
		Up to 30 x 30	U8	Single	± 6 kg
		Over 60 x 40	U10-U12	Double	± 7 kg

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