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TECHNICAL DATA SHEET

C2TE S1 CERAMIC TILE ADHESIVE

PRODUCT

Special adhesive for façades and special formats. High bond strength. Flexible.

C2TE S1 is a one-component, fiber-reinforced powder adhesive with outstanding flexibility and high deformability (EN 12002 – class S1) and an extended open time, providing complete reliability on façades when bonding all types of ceramic tiles, including large formats.

Recommended for bonding:

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

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, marble, 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.

Also suitable on metal materials (iron, galvanized sheet, aluminum, etc.), on façades as well as floors (indoors and outdoors) and swimming pools.

FIELD OF APPLICATION AND SUBSTRATES

- Ceramic wall and floor coverings, indoors and outdoors.
- 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.
- See the substrate table (page 2) for the suitable substrates and the application according to tile surface area.

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.
- Tanks and swimming pools can be filled after 21 days.

TECHNICAL DATA

Appearance:	White or gray powder
Mixing water:	± 30 % (± 5.75 L per 25 kg bag of white or gray)
Bulk density of powder:	± 1.2 kg/dm^3
Non-slip:	Yes
Application temperature*:	Between +5 and +30 °C
Open time*:	± 60 min
Pot life*:	> 2 h
Foot traffic after*:	± 24 h
Toxicity/flammability:	No
Flexibility:	Yes
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:	> 1 N/mm^2
Adhesion after heat aging:	> 1 N/mm^2
Adhesion after water immersion:	> 1 N/mm^2
Adhesion after freeze-thaw cycles:	> 1 N/mm^2
Alkali resistance:	Excellent
Oil resistance:	Excellent
Solvent resistance:	Excellent
Service temperature:	From -30 °C to +90 °C
S1 deformability:	Deformable

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

CLEANING

- Stains from lime residues on ceramic tiles can be removed with DETERCAL (see technical data sheet).
- Clean tools with plenty of water before the paste has dried completely.

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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SUBSTRATE CONDITION AND 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 SR 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 S1 adhesive once mixed.

DIRECTIONS FOR USE

- Mix the adhesive with clean water, ± 5.75 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 S1** 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.

NOTE: *The advice given is offered in good faith and is based on the results of long experience and our laboratory tests. As the conditions of application are beyond our control, we cannot accept any liability for incorrect use of our product.*

SUBSTRATE TABLE

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

Substrate	Adhesive	Tile surface area	Notched trowel	Buttering (single / double)	Consumption
Smooth and even	**C2TE S1**	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 30 x 30	U10-U12	Double	± 6 kg
Uneven	**C2TE S1**	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 30 x 30	U10-U12	Double	± 7 kg

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