Reviewed: 8/10/2026

Product Name: SUPERFLEX C2S1TE
HEAVY DUTY TILE ADHESIVE

Product Description:

Superflex C2S1TE Heavy Duty Tile Adhesive is a high-performance, flexible powder adhesive that only requires the addition of water to meet the requirements of Australian Standard AS 4992.1 (ISO 13007-1:2004).

Superflex C2S1TE is specifically formulated to have enhanced properties of adhesion and flexibility ideal for fixing large format tiles on a variety of substrates. Superflex C2S1TE is an improved (2) slip resistant (T) cementitious adhesive (C) with extended open time (E), deformable (S1) of class C2TES1.

Features:

- Superior Bonding Strength: Ensures strong adhesion for ceramic and porcelain tiles.
- Excellent Non-Slump: Ideal for vertical tiling without tile slippage.
- Extended Workability: Provides up to 30 minutes of open time for precise tile placement.
- Flexible Performance: Absorbs substrate movements and thermal expansion.
- Water & Frost Resistant: Perfect for wet areas and outdoor applications.
- Versatile Use: Compatible with various tile types and substrates.

Benifits:

- Easy to apply
- Resist mould and bacterial growth
- Easily cleaned up with a wet cloth
- Great hiding power

Recommended for use on:

- Tile over tile
- Concrete
- Cement render
- Fibrous cement sheet
- Brick work & block work
- Thin bed application
- Plasterboard
- Sand & Cement Screeds

Where not to use:

- Directly to timber
- Dense non-porous substrates such as metal or plastic
- For fixing translucent tiles or unusual materials

Installation and Surface Preparation:

- All surfaces must be clean, dry and free from coatings or contaminants that will prevent proper adhesion. Dust, curing compounds, waxes or absorbed oils that may be present will affect adhesion.
- Waterproofing membranes must be completely cured and dry.
- Very porous substrates must be primed with Sure Level Primer.
- Newly placed concrete should be allowed to cure for at least 7 days or up to 28 days under cold conditions. Thin cement render should be allowed to cure at least 7 days.
- Wood floated finishes to concrete or rendered substrates are preferred and will provide superior surfaces for adhesion.

Expansion Jointing:

- Australian standard guidelines on proper spacing and widths of movement joints must be incorporated in the tile layout to allow for possible movement around the perimeter of the floor.
- Different adjoining substrates or at other surface interruptions.

Mixing

- 20kg of Super Flex C2S1TE requires approximately 5.5 litres of water to produce a suitable paste-like consistency of adhesive.
- Add a measured quantity of clean water to a clean container and add the Super Flex C2S1TE powder as a steady stream while mixing with a mechanical stirrer until a lump-free paste of appropriate consistency is achieved.
- Vertical surfaces require a thicker consistency and slightly less mixing water.
- Allow the mixture to rest for a few minutes to mature, remix, and use.

Application:

- Using an appropriate notched trowel for the size of the tile being laid, apply the mixed adhesive to the substrate. The adhesive may also be required to be applied to the back of the tile to accommodate variations in substrate levels depending on the size of the tile and the substrate.
- A minimum of thickness of 2mm for walls and 3mm for floors is required for proper adhesion.
- Tiles must be fully supported by the adhesive with no voids. The whole of the back of the tile must be in good contact with the adhesive.
- Tiles with deep keys will require back buttering to ensure proper bond.
- Jointing between tiles should be adequate for proper grouting. No less than 3mm for floors and 1.5mm for walls.

Grouting and Traffic:

- Grouting should be applied after the adhesive has set, approximately 8 hours for walls and 24 hours for floors.
- The adhesive should be allowed to cure before subjected to traffic. Depending on temperature and the type of substrate, approximately 24 hours or longer should be allowed.

Clean Up:

- While still fresh, Super Flex C2S1TE can be cleaned from tile surfaces with a damp sponge. Tools and hands can be cleaned with water provided the adhesive is fresh.

Coverage:

- 20kg of Super Flex C2S1TE will cover approximately 6 to 12m² depending on the bed thickness and substrate.

Pot Life:

- Depending on temperature, pot life is approximately 2 to 3 hours.

Storage:

- Store the products in a cool, dry, and ventilated place.

Shelf Life:

- Super Flex C2S1TE can be stored for 12 months in the original unopened packaging in a normal indoor environment.

Packaging:

- 20Kg/bag

Precautions:

- Recommended application temperature 5-40°C.
- Tightly reseal the package after use.
- Keep out of reach of children.
- Protect from freezing.

Technical Information		
APPLICATION DATA (@ +23°C - 50% R.H.)		
1	DENSITY OF THE MIX (KG/M³)	1,200
2	POT LIFE OF MIX	more than 2 hours
3	OPEN TIME	> 30 minutes
4	ADJUSTMENT TIME	45 minutes
5	GROUTING TILE JOINTS ON WALLS	after 4-12 hours
6	GROUTING TILE JOINTS ON FLOORS	after 24 hours
7	SET TO LIGHT FOOT TRAFFIC	24 hours
8	READY FOR USE	14 days
9	CLASSIFICATION	AS 4992.1 (ISO 13007-1:2004) Type C2S1TE
10	BOND STRENGTH (MPa)	Initial bond (after 28 days): 1.49 Bond after application of heat source: 1.32 Bond strength after immersion in water: 1.14 Bond strength after freeze-thaw cycles: 1.13
11	RESISTANCE TO ALKALIS	Excellent
12	RESISTANCE TO OILS	Excellent (poor with vegetable oils)
13	RESISTANCE TO SOLVENTS	Excellent
14	IN SERVICE TEMPERATURE RANGE	From -30°C to +90°C
15	DEFOMABILITY	S1 - deformable (> 2.5 mm, < 5 mm)

For further information consult our Technical Department

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