



C2TE S1 Semi-Rapid Flex White Adhesive

White Semi-Rapid Set Flexible Adhesive for Tiles & Natural Stone
1-20mm

1-20mm Bed Depth / **2 hours Pot Life** / **5 hours Set Time** / **4.8-5.0l Water**

- Ceramic / Porcelain / Natural Stone
- Large Format / Mosaics
- Screeds / Concrete / Timber
- Underfloor Heating
- Swimming Pools / Wet Areas
- Anti-Stain / Watermark Proof
- High Grab / Non-Slip
- Interior / Exterior

DESCRIPTION

ROCATEX C2TE S1 Semi-Rapid Flex White is a single part, flexible, semi-rapid setting wall and floor tile adhesive for fixing natural stone and tiles including ceramics, porcelain and mosaics to a variety of substrates. Suitable for interior and exterior use.

Made with high quality white cement and fine grain crushed white limestone, this high performance, polymer modified S1 flexible adhesive can be used up to 20mm bed thickness. Capable of fixing almost every type of tile to almost every type of substrate, the non-slip/non-slump 'T' rating ($\leq 0.5\text{mm}$ slip resistance) makes it ideal for large format tiles and natural stone.

PREPARATION

All installations should be carried out in accordance with BS 5385. All surfaces must be clean, firm, dry, free from all loose matter including dust, dirt, oil, grease, laitance and any other contaminants that may affect adhesion. All substrates should be prepared to provide a rigid and secure base without deflection and suitable to support the intended weight. New timber should be given time to find equilibrium with its surroundings.

The following information provides further details for preparing various common substrates. Unless stated otherwise, any reference to the term "diluted" means 1 part primer mixed with 1 part clean water. N.B. All primer applications should be fully dry before next works commence.

Anhydrite Screeds - The substrate must not leach moisture. Anhydrite screeds must not have a moisture content greater than 0.5% or 75% relative humidity (RH). This can easily be tested by taking moisture readings across the whole surface. It is essential that surface laitance is removed in accordance with the screed manufacturer's recommendations, followed by vacuum cleaning to remove any loose material, then apply 2-4 neat coats of ROCATEX Acrylic Primer or 2 diluted coats of ROCATEX Ultimate Grip Primer.

Concrete Screeds - Prime with 2 diluted coats of ROCATEX Acrylic Primer or 1 diluted coat of ROCATEX Ultimate Grip Primer. Substrate curing before tiling can commence is approximately 6 weeks.

Power Floated Concrete - The cured surface should be mechanically abraded to remove any curing agents and open up the surface, followed by vacuum cleaning to remove any loose material, then apply 2 diluted coats of ROCATEX Acrylic Primer or 1 diluted coat of ROCATEX Ultimate Grip Primer. Substrate curing before tiling can commence is approximately 6 weeks.

Sand & Cement Screeds - Prime with 2 diluted coats of ROCATEX Acrylic Primer or 1 diluted coat of ROCATEX Ultimate Grip Primer. Substrate curing before tiling can commence is approximately 3 weeks.

ROCATEX

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Brick/Blockwork - Please note that new brick/blockwork is prone to drying shrinkage and care must be taken. Allow a minimum of 6 weeks before tiling. Prime with 2 diluted coats of ROCATEX Acrylic Primer or 1 diluted coat of ROCATEX Ultimate Grip Primer.

Gypsum Plaster - The surface should be roughened up using a wire brush or other abrasive tool as this will remove the surface laitance. Ensure surface is clean and free from loose matter and prime with 2 neat coats of ROCATEX Acrylic Primer or 1 diluted coat of ROCATEX Ultimate Grip Primer. Substrate curing before tiling can commence is approximately 4 weeks.

Plaster Boards - Skimming is not required. Prime with 2 diluted coats of ROCATEX Acrylic Primer or 1 diluted coat of ROCATEX Ultimate Grip Primer.

Plywood Overlay - Internal use only. Floors: Must be a minimum thickness of 15mm, Class 3 exterior grade, screwed down to existing boards and joists with staggered joints at 300mm centres and 150mm centres along board edges. Prime all edges and underside with 1 neat coat of ROCATEX Acrylic Primer or 1 neat coat of ROCATEX Ultimate Grip Primer. Prime the surface with 1 diluted coat of ROCATEX Acrylic Primer or 1 diluted coat of ROCATEX Ultimate Grip Primer. Walls: Must be overboarded with suitable tile backer board. N.B. All timber constructions must be adequately ventilated behind to prevent atmospheric moisture distortion and warpage of the boards.

Tongue & Grooved Boards/Floorboards/Chipboard - Internal use only. Must be overboarded with suitable tile backer board/plywood. N.B. All timber constructions must be adequately ventilated behind to prevent atmospheric moisture distortion and warpage of the boards.

Cement Based Tile Backer Boards - Must be installed in accordance with manufacturer's guidelines. Unless stated otherwise, prime with 1 diluted coat of ROCATEX Acrylic Primer or 1 diluted coat of ROCATEX Ultimate Grip Primer.

Existing Tiles & Other Non-Porous Substrates - Apply 1 neat coat of ROCATEX Ultimate Grip Primer.

Flooring Grade Asphalt - Internal use only. Ensure the surface is in good condition and there are no signs of debonding and/or hollowness. Apply 1 neat coat of ROCATEX Ultimate Grip Primer.

Epoxy Damp Proof Membranes - Apply 1 neat coat of ROCATEX Ultimate Grip Primer.

Underfloor Heating - Existing underfloor heating must be switched off at least 3 days prior to tiling to allow the substrate to cool. Once tiling has been completed allow 1 week before turning the heating system back on. Start with a low temperature and gradually increase at 5°C per day.

When tiling on to new electric underfloor heating, we recommend the use of a suitable ROCATEX self levelling compound to encase the heat mat. Once tiling has been completed allow 1 week before turning the heating system on. Start with a low temperature and gradually increase at 5°C per day.

MIXING

Mix ROCATEX C2TE S1 Semi-Rapid Flex White in a clean mixing vessel with 4.8 - 5 litres of cold clean tap water until a smooth, homogenous consistency is achieved using a suitable drill with whisk attachment. Mix at a slow speed for a minimum of 2 minutes to ensure that all ingredients are dispersed thoroughly throughout the whole mix, allow to stand for 2 minutes then re-mix.

APPLICATION

The mixed adhesive is applied to the prepared surface and then combed through with a suitably sized notched trowel to create a unidirectional ribbed adhesive bed. The tiles should be pressed into place with a twisting and sliding action to achieve full adhesive to tile transfer.

Tiles should not be fixed using the dot and dab technique. Wall tiles with a surface area greater than 0.1m² (approx. 300x300mm) should be solidly bedded. Refer to the maximum weight limit of the substrate being fixed to. For floor tiling, solid bedding should be achieved. For wall and floor tiling in frequent wetting areas, and in all exterior installations, tiles should be solidly bedded so that voids behind them are eliminated. To achieve a solid bed, the tiles should be back-buttered immediately prior to placing into the ribbed bed.

The size of the notched trowel chosen depends on the size of the tile, the surface being tiled, the profile on the back of the tile and the degree of coverage area required. Expansion joints must be installed in accordance with the relevant part of BS 5385. Test open time by touching the adhesive bed with a finger; if adhesive transfers to the finger a safe bond is assured, if not, the adhesive must be removed and replaced with fresh material. Never add water or powder to a mix that has begun to set. Do not apply at substrate temperatures below 5°C or in conditions of extreme heat. Exterior installations must be protected from direct sunlight, wind or rain.

GROUTING

Leave for a minimum of 5 hours before grouting and/or walking on the tile. This time may be extended on impervious surfaces. If completing a swimming pool do not fill for at least 3 weeks after grouting.

COVERAGE

One 20kg bag will cover approximately 6m² at 3mm bed thickness.

STORAGE


Store unopened, clear of the ground, in a cool, dry, frost free environment.

TECHNICAL DATA

Conformity:	Conforms to the requirements of BS EN 12004 C2TE S1
Tensile strength:	24 hrs >1.00N/mm ²
Transverse deformation:	Classification S1 (deformation greater than or equal to 2.5mm and less than 5mm)
Application temperature:	5°C to 25°C
Service temperature range:	-20°C to +80°C
Bed thickness:	1-20mm
Mixing ratio:	4.8 - 5.0 litres of clean tap water to 20kg powder
Pot life:	2 hrs at 20°C
Walk on time:	5 hrs at 20°C
Ready for grouting:	5 hrs at 20°C
Fully load bearing:	48 hrs at 20°C
Final hardening:	28 days at 20°C
Pack size:	20kg
Shelf life:	12 months in cool dry area

Note: All times refer to site conditions of 20°C and 50% relative humidity. These times will be increased at lower temperatures and reduced at higher temperatures. Protect from water and frost penetration until completely hardened, which may take a few days in unfavourable weather conditions. DO NOT apply if frost is forecast within 48 hours, in wet conditions, in temperatures below 5°C or above 25°C, to areas in direct sunlight or to substrates that are hot.


Rocatex Ltd., UK www.rocatex.com
13 DoP No. 002 EN 12004
C2TE S1 Improved deformable cementitious adhesive with extended open time and reduced slip for tiling


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HEALTH & SAFETY



DANGER



CONTAINS CHROMIUM (VI)

DANGER Causes skin irritation. Harmful if swallowed. Causes serious eye damage. May cause respiratory irritation. Keep out of reach of children. Avoid breathing dust. Wear protective gloves and eye protection. Wash hands thoroughly after handling. **IF SKIN IRRITATION OCCURS:** Get medical advice/attention. **IF SWALLOWED:** Call a poison centre or doctor/physician if you feel unwell. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison centre or doctor/physician. Dispose of contents/container in accordance with local/regional regulations. Repeated exposure may cause skin dryness and cracking. **CONTAINS CHROMIUM (VI)** May produce an allergic reaction. To avoid risks to human health and the environment, comply with instructions for use. Safety data sheet available on request.