

# Product Data Sheet

## TTC-520

### C2ETS1

Premium Flexible Rubber Modified cement-based tile adhesive

#### DESCRIPTION

- C2 - High Adhesion Strength
- E - Extended Open Time
- T - Non Slip/Non Slump
- S1 - Good flexibility
- ≤1mm crack bridging capability
- Accommodates thermal movement
- Hydrate curing
- Great workability
- Water washable
- Low odour

#### SUBSTRATES

- Green Screeds
- Concrete (after 7 days)
- Sand & cement screeds
- Rendered surfaces
- Fibrous cement sheeting
- Plasterboard
- Internal and external applications
- Approved under tile waterproofing membranes
- Areas covered under AS3958.1-2007

#### COVERAGE

20kg bag will cover 10m<sup>2</sup> with 10mm notch trowel and 16-17m<sup>2</sup> with 6mm notch trowel.

#### POT LIFE

2.5hrs at 23C<sup>0</sup> and 50% RH.

#### SETTING TIME

16hrs at 23C<sup>0</sup> and 50% RH.

#### SHELF LIFE

In unopened original packaging for up to 12mths when stored in a cool, dry environment off the floor.

#### SUBSTRATE PREPARATION

All substrates must be clean, dry, free from dust, wax, oil, grease, coatings and all contaminants which may cause adhesion failure.

Fibrous cement sheeting & plasterboard must be fixed as per manufacturers recommendations and should be sponged down with clean water to remove dust.

Approved under tile waterproofing membranes must be fully cured.

Ensure all dust is removed prior to spreading adhesive.

#### PRIMING

Substrates must be primed with appropriate primer before tiling. Follow primer manufacturer's application instructions and drying time.

#### MIXING

20kg of TTC-520 powder requires approximately **8 litres** of clean water. Slowly add powder into a clean bucket with the measured water. Slowly mix with a drill & mixing paddle to ensure a smooth, lump free tooth paste consistency. Leave the mix for 3 minutes then re-stir.

#### MOVEMENT JOINTS

Movement joints must be incorporated within the tiling system in accordance with AS3958.1-2007. Ensure movement joints are free of all adhesive and grout residue.

#### APPLICATION

Application must be done in accordance with AS3958.1- 2007. Apply the adhesive mixture with the appropriate size notch trowel for the application. Ensure to work the adhesive to the substrate for good adhesion. Adhesive should sit up and not slump whilst being wet and tacky. Open time is approximately 30 mins at 23 °C. If the adhesive has skinned over prior to laying tiles then remove and apply fresh adhesive. Ensure minimum adhesive bed thickness is 2mm for wall & 4mm for floor applications depending on size of tile. Do not tile in temperatures below 5°C and greater than 34°C.

#### CLEAN UP

Adhesive should be removed from the surface of tiles using a clean damp sponge while the adhesive is wet. Tools and equipment should be scrubbed clean with water while the adhesive is still wet.

#### DRYING

Allow minimum **16hrs** for the adhesive to cure and set prior to grouting. For impervious substrates such as waterproofing membranes and or non-absorbent tiles further curing time will be required depending site conditions and ambient temperatures. Ensure adhesive has set prior to grouting.

#### SAFETY DIRECTIONS

Apply appropriate material handling techniques. Appropriate gloves, dust masks, safety glasses and protective clothing should be worn. If product comes in contact with skin, wash off with soapy water. Avoid inhaling dust by wearing appropriate dust mask. If swallowed, drink plenty of drinkable water and seek medical advice. In case of contact with the eyes, rinse with clean water or eye wash solution and seek medical advice.

#### LIMITATIONS

- Not suitable for swimming pools, spas and ponds.
- Not suitable for 100% polyurethane or fibreglass waterproofing membranes.
- Not suitable for plastics and metals.
- Not suitable for tiling directly over Masonite, MDF, timber, plywood or particleboard.
- Not suitable for moisture sensitive stones.
- External tiling should not exceed 2.7m in height. Suspended concrete slabs must conform to AS3958.1-2007 for maximum deflection. All post-tensioned concrete slabs must be treated as flexible substrate.

#### PERFORMANCE DATA

Exceeds the performance requirements of AS4992 Tensile Adhesive Strength ≥ 1.0MPa (28 days).



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