



TC Master Flex Eco

Flexible Rubber-Modified Wall & Floor Tile Adhesive

Rubber-modified cementitious tile adhesive

Reliable performance for standard wall and floor installations

Suitable for internal and external use

Suitable for ceramic, vitrified and porcelain tiles



CONFORMS TO ISO 13007

C2S1TE

Address:

Unit A2/152 Miller Rd
Chester Hill
NSW 2162

Phone: 1300 202 894

E-mail: techdept@sas-aa.com.au

Web: <https://sas-aa.com.au>

PRODUCT OVERVIEW

TC Master Flex Eco is a rubber-modified cement-based tile adhesive formulated to provide reliable adhesion and practical flexibility for everyday wall and floor tiling applications. The product offers consistent workability and controlled open time, making it suitable for residential and light commercial installations in internal and external environments where minimal movement is anticipated.

KEY BENEFITS & FEATURES

- Rubber-modified formulation for dependable flexibility
- Reliable adhesion for standard wall and floor installations
- Consistent, easy-to-work mortar for everyday tiling
- Extended open time (E)
- Suitable for internal and external wall and floor tiling
- Low VOC

SUITABLE TILES

- Porcelain tiles
- Fully vitrified and ceramic tiles
- Natural stone (non-moisture-sensitive)
- Ceramic mosaics

COMPATIBLE SUBSTRATES

- Concrete and cementitious screeds
- Cement render
- Fibre-cement sheet and plasterboard (walls)
- SAS liquid-applied waterproofing membranes
- Existing ceramic tiles (internal dry areas only)

SURFACE ASSESSMENT & PREPARATION

All substrates must be structurally sound, dimensionally stable, and clean. Surfaces must be free from dust, oil, curing compounds, release agents, laitance, and contaminants that may impair adhesion. Preparation must comply with AS 3958:2023 requirements.

Substrate	Preparation Requirements
Concrete	Remove laitance mechanically; dense surfaces may require abrasion to achieve key.
Cement Screeds	Ensure fully cured and wood-float finish; remove friable material.
Plasterboard / FC Sheet	Must be rigidly fixed; prime FC sheet and jointing compounds.
SAS Waterproofing Membranes	Allow full cure as per membrane TDS before tiling.
Existing Tiles	Clean and degrease; mechanically roughen or prime with tile-over-tile system (TC Grip Primer).

PREPARING THE ADHESIVE

Add TC Master Flex Eco powder to clean, cool water while stirring with a mechanical paddle mixer. Mix until a smooth, creamy, lump-free mortar is obtained. Mix for approximately 2 minutes, allow to stand for 3 minutes, then re-mix for a further 1–2 minutes before use.

Recommended water addition is approximately 6 liters per 20 kg bag. Water demand may be slightly adjusted to suit tile type, substrate, and site conditions, but over-watering must be avoided. Do not use at temperatures below 5°C. The pot life of the mixed adhesive is expected to be around 90 minutes at 23°C and 50% relative humidity.

INSTALLATION METHOD

Ensure substrates are correctly prepared and tiles are clean and free from dust and alum prior to fixing. Tiling must be carried out in accordance with AS 3958:2023.

Select a notched trowel size appropriate to the substrate and tile dimension (refer to AS 3958:2023, Table 5.6.2.2). TC Master Flex Eco may generally be applied at a bed thickness between 3 mm and 10 mm.

Spread the adhesive onto the substrate and comb in a single direction. For tiles up to 300 x 300 mm use a 10 mm notch trowel, and for Tiles greater than 400 x 400 use a 12 mm notch trowel on the substrate and butter the back of each tile. Apply only up to 1 m² at a time. Press the tiles firmly into the adhesive before it skins, sliding perpendicular to the notch direction to collapse the ribs and achieve the required contact. Do not spot fix, remove all excess adhesive from the tiles before it sets. Periodically lift a tile to verify adequate contact and that there are no voids. Tiles should be fixed in accordance with Australian Standard AS 3958:2023.

Under normal conditions, TC Master Flex Eco is expected to provide an open time of approximately 30 minutes and an adjustment time of about 20 minutes at 23°C and 50% RH. Only spread as much adhesive as can be tiled within the open time. Clean tools with water immediately after use.

MOVEMENT & CONTROL JOINTS

Movement joints must be installed in accordance with AS 3958:2023, including perimeters, internal transitions, and changes in substrate.

GROUTING & CURING GUIDANCE

Grouting may commence approximately 24 hours after tiling at 23°C and 50% RH. Allow additional time for dense tiles, cool climates, or minimal ventilation. Tile joints can be grouted with SAS TC-8, Litokol Style Tech or Starlike Pro grouts.

COVERAGE ESTIMATES

Coverage varies with trowel size and technique.
Approximate values based on a level substrate:

- 7 m² using a 10 mm notched trowel.

STORAGE & PACKAGING

Store unopened bags in a dry environment, off the ground.
Shelf life is 12 months. TC Master Flex Eco is packed in polylined paper bags, nominal net weight 20 kg.

PHYSICAL & APPLICATION CHARACTERISTICS

Property	Typical Value
Colour	White
Water Ratio	6.0 L per 20 kg
Pot Life	90 minutes*
Open Time	30 minutes*
Adjustment Time	20 minutes*

PERFORMANCE CRITERIA TO AS ISO 13007

Test	Requirement / Result
Classification	C2 S1 TE
28-day tensile adhesion	≥ 1.0 MPa*
Water immersion adhesion	≥ 1.0 MPa*
Extended open time	≥ 1.0 MPa after 30 min*
Slip Test	≤ 0.5 mm
Transverse deformation	≥ 2.5 mm, < 5 mm

*Std. Cond: 23±2°C / 50±5% RH

IMPORTANT NOTES

- Do not use over metal or unstable substrates. For timber or other movement-prone substrates, consult SAS Technical for alternative systems.
- Substrates subject to significant movement, shrinkage or deflection are not suitable without specific system design; refer to AS 3958:2023 and the relevant structural codes.
- TC Master Flex Eco is not suitable for continuous immersion applications, e.g., swimming pools, spas, etc.
- For fixing moisture-sensitive natural stone or translucent stone, contact SAS Technical for advice on appropriate adhesive systems.
- Always refer to current SAS system recommendations when using TC Master Flex Eco as part of a broader tiling system (e.g. waterproofing, screeds, levelling compounds).

SAFETY DATA

This product contains cement and fine mineral fillers and is alkaline when mixed with water. It may cause skin irritation, serious eye damage, and respiratory irritation. Prolonged or repeated exposure to respirable dust may cause long-term health effects.

Avoid contact with skin and eyes and avoid breathing dust. Wear suitable protective clothing, gloves, eye and face protection and ensure good ventilation during mixing and application. In case of contact with the eyes, rinse immediately with plenty of water for at least 15 minutes and seek medical advice. If skin contact occurs, wash with soap and water. Keep out of reach of children. For detailed health and safety information, refer to the current Safety Data Sheet (SDS) for TC Master Flex Eco.

PRODUCT WARRANTY STATEMENT

SAS Australasia Pty Ltd warrants that this product is manufactured to strict quality specifications. Liability is limited to replacement of defective product. This does not cover incorrect application or misuse.

TECHNICAL INFORMATION NOTICE

Information contained in this document represents current knowledge and may change without notice. Users must verify suitability for their specific application. Always refer to the latest TDS version.

DOCUMENT REFERENCE

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