

M58 TILE ADHESIVE C2TE



Technical Data Sheet

PRODUCT DESCRIPTION

M58 Tile Adhesive C2TE is a high-performance, high-strength, anti-slip cement-based adhesive suitable for bonding a wide variety of tiles, including vitrified tiles, natural stone, marble, granite, mosaics, and terracotta. It is formulated for thick-layer applications up to 20 mm on prepared and pretreated substrates such as screeds or concrete, indoors and in long-term humid environments. This polymer-modified adhesive delivers superior bond strength, extended open time, and excellent anti-slip performance on both walls and floors.



FEATURES

- C2TE-grade bond strength
- Easy to mix and apply
- Fast setting
- Suitable for wall and floor tiles and stone

SUITABLE SUBSTRATES

- Concrete (cured for at least 28 days)
- Cement mortar bedding
- Masonry cement bricks, blocks, and leveling coats
- Gypsum wallboard and plaster

SUBSTRATES PREPARATION

To ensure optimal bonding performance with M58 Tile Adhesive C2TE, the substrate must be flat, firm, solid, stable, and thoroughly clean prior to application. The surface must be free of dust, oil, grease, mold, curing agents, loose particles, or any substances that could weaken or hinder effective adhesion. All substrates must possess good structural integrity and be dry. Cement-based leveling layers must be cured for at least 14 days and have a tensile strength exceeding that of the tile adhesive used.

MIXING

1. Pour approximately 4.8 – 5.2 liters of clean, potable water into a clean mixing bucket.
2. Slowly add 20 kg of powder while stirring at low speed.
3. Using a low-speed mixer (approximately 300 rpm) fitted with a spiral or twin-paddle mixer, mix thoroughly until a smooth, uniform paste is formed with no lumps. Avoid over-mixing. Let the mixture rest for approximately 5 minutes.
4. Stir again before use; if the mixture becomes thick or stiff, simply remix it — do not add more water. Discard any hardened material.

PRODUCT APPLICATION

1. Ensure that the substrate is level, solid, stable, and clean, free of dust, oil, grease, mold, and loose particles.
2. For indoor applications, ensure that the adhesive contact area between the tile and the substrate is greater than 80% of the tile backing; for outdoor and wet area applications, ensure it is greater than 95%. If necessary, apply adhesive to the back of the tile to meet these requirements.
3. Use the straight edge of the trowel to firmly press the adhesive into the substrate to create a key coat, then add more adhesive. Use the notched edge of the trowel to comb the adhesive in a single direction, forming parallel ridges. Apply only as much adhesive as can be tiled within the open time. Open time may vary according to substrate porosity and jobsite conditions.
4. Press the tile firmly into the wet adhesive and rub it back and forth perpendicular to the ridges to collapse the adhesive ridges, ensuring maximum coverage. Periodically lift a tile to verify acceptable coverage.
5. Remove excess adhesive from the tile joints, ensuring at least two-thirds of the tile thickness remains open for grouting.
6. Tiles must not be laid edge-to-edge; a gap of at least 2 mm must be left to accommodate tile expansion.
7. Wall tiles should be temporarily supported after installation until the adhesive has fully cured.
8. Allow the installation to cure for approximately 24 hours before grouting.

LIMITATIONS

1. M58 Tile Adhesive C2TE only needs to be mixed with the specified quantity of water. It may also be mixed with M19 Multifunctional Emulsion to improve bond strength and flexibility; refer to M19 product sheet for more details.
**The additional of M19 will improve the bonding strength of M55 to C2-Grade as per ISO 13007 & JC/T 547-2017.*
2. Ensure ambient, substrate, and mixing water temperature is between 5 – 35°C.
3. M58's workability is affected by substrate type, weather conditions, and application process.
4. Mixed M58 has a pot life of approximately 2 hours (varies according to temperature and humidity). Do not use the adhesive if it has started to set or skin over.

TECHNICAL DATA

ISO 13007 Classification

Classification Code	Classification Requirement
C1(cementitious, normal adhesive)	≥ 0.5 MPa after standard aging, heat aging, water immersion and freeze/thaw cycles

Shelf Life and Application Properties*

at 73°F (23°C) and 50% relative humidity

Shelf life	1 year
Open time*	20 to 30 minutes
Pot life*	> 2 hours
Time before grouting*	24 hours
VOC content	0 g/L

*Open time, pot life and time before grouting vary based on jobsite conditions.

COVERAGE

Typical Trowels and Approximate Coverage per 25 kg

Typical Trowel	Coverage
6x6x6 mm, square-notch	7.7 to 9.2 m ²
6x10x6 mm, square-notch	5.6 to 6.7 m ²

CONSUMPTIONS

Approx. 1.5 kg/m²/mm. The actual consumption varies depending on the substrate condition, the size/shape of the notched trowel used, and the evenness of the substrate.

PACKAGING & STORAGE

- Packaging: Available in 20kg and 25kg packs.
- The product must be stored indoors in a dry and well-ventilated area, protected from moisture, water, and direct sunlight.
- Shelf life of M58 Tile Adhesive C2TE is at least 12 months from production date if stored indoors in a dry and well-ventilated area, protected from moisture, water, and direct sunlight.

EXECUTION STANDARD

JC/T 547-2017 & ISO 13007 C1-Grade

SAFETY INFORMATION

PLEASE READ THE SAFETY DATA SHEET THOROUGHLY PRIOR TO APPLYING THE PRODUCT

Ensure suitable PPE (Personal Protective Equipment) such as protective gloves, respiratory, face, skin and eye protection are worn at all times while handling this product. Avoid breathing dust, fumes, gas, mist, vapors or spray. Avoid contact with eyes and skin. If this product comes in contact with skin, rinse with soap and plenty of water. If the product comes in contact with eyes, wash out immediately with water. Ensure adequate ventilation during mixing and application. Wash contaminated clothing before reuse. Keep out of the reach of children. Call a doctor if you feel unwell. Safety Data Sheet (SDS) is available on request.

TECHNICAL SERVICES

Adhere to all product limitations, and if unsure about a particular application, contact Morient Mortar at:

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