



MTA 993

SINGLE COMPONENT POLYMER MODIFIED FLEXIBLE TILE



DESCRIPTION

MTA 993 is a high-performance cementitious tile adhesive that complies with the C2TE classification requirements in accordance with EN 12004 standards. It is formulated for demanding applications requiring strong, durable bonding of ceramic, vitrified porcelain, homogeneous tiles, and natural stone, including large-format and low-porosity types.

FEATURES & APPLICATIONS

- Ideal for large-format tiles, vitrified porcelain tiles, and natural stone that are not prone to discolouration or translucency.
- Suitable for cement-based substrates such as concrete render, brickwork, cementitious screeds (sufficiently cured and dry), and lightweight concrete blocks (to be primed) with an MTA bonding agent.
- Designed for both interior and exterior applications on walls and floors, including wet and dry areas like bathrooms, balconies and facades.
- No pre-soaking of tiles is required prior to installation.

PACKAGING

- 25 kg / bag

TECHNICAL DATA

(In compliance with EN 12004 under controlled laboratory conditions)

Property	Value
Appearance	Grey powder
Specific Gravity	1.5 ± 0.1 kg/litre
Pot Life (25°C)	1–2 hours
Open Time (25°C)	Approx. 30 minutes
Trafficable	After 24 hours
Tensile Adhesion Strength:	
After 28 days	≥ 1.0 N/mm ²
After water immersion	≥ 1.0 N/mm ²
After heat ageing	≥ 1.0 N/mm ²
Open time	≥ 1.0 N/mm ²
Slip Resistance	≤ 0.5mm

✦ **Note:** Specifications are subject to change without notice. Test values are obtained under laboratory conditions and are representative only. Actual performance may vary depending on tile type, installation method, and site conditions.

APPLICATIONS

Substrate Preparation

- Ensure the substrate is cured, structurally sound, flat, and free from grease, oil, paint, wax, laitance, loose material, and cracks.
- Incorporate movement joints per BS 5385 (Parts 1–4).
- Painted surfaces must be scabbled or abraded to expose at least 80% of the original surface.
- Newly rendered or screeded surfaces must be thoroughly cleaned and finished with a wood float.
- New concrete must be allowed to cure for at least 28 days. Screeds should cure for at least 7 days and undergo continuous air drying for at least 2 weeks before tiling. Refer to BS 5385 or MS 1294.
- Sweep dusty masonry clean and dampen with water before applying adhesive.
- Absorbent surfaces must be fully saturated with clean water.

MIXING RATIO

MTA 993	: 25 kg
Clean water	: 6.5 – 7.0 litres

Mixing Instructions:

- Pour clean water into a mixing container.
- Gradually add MTA 993 while mixing continuously in a circular motion using a low-speed mechanical mixer.
- Mix until a smooth, lump-free, creamy consistency is achieved.
- Allow the mix to stand for 5 minutes, then remix before use.

PRODUCT APPLICATION

- Apply MTA 993 adhesive using a suitable notched trowel. The trowel should be chosen based on the tile size, tile back profile, and substrate flatness.
- Use the flat side of the trowel to spread a thin layer of adhesive over approximately 1 m², followed by combing with the notched side in a single direction.
- Firmly press tiles into the adhesive bed with a slight twisting motion to ensure full contact.
- Ensure the adhesive is fresh during installation. Do not lay tiles on “skinned-over adhesive-reapply” fresh adhesive if needed.
- Do not wet skinned-over adhesive, as this may form an anti-adhesive film and impair bonding.
- Back-buttering may be required for large-format or textured tiles to ensure full coverage.
- Be aware that adverse conditions such as direct sunlight, wind, high temperatures, or highly absorbent substrates may shorten the open time.

COVERAGE

APPROXIMATE COVERAGE

Notched Trowel Size	Approx. coverage
3mm x 3mm	2.0 – 3.0 kg/m ²
6mm x 6mm	5.0 – 5.5 kg/m ²
12mm x 12mm	10.0 – 11.0 kg/m ²

✦ **Note:** Coverage may vary depending on the nature and flatness of the substrate surface.

GROUTING

Grouting should preferably be carried out at least 24 hours after tiling is completed, or once the adhesive has sufficiently set and dried.

CLEANING

Clean tiles and tools with water while the adhesive is still fresh.

SHELF LIFE

- 6 months from the production date.

STORAGE

- Store in a dry, sealed environment.
- Protect from humidity and weather.
- Once opened, use the remaining product promptly.

HEALTH & SAFETY

This product contains cement, which may cause skin irritation or dermatitis.

- Wear protective gloves and goggles during application.
- In case of skin contact or irritation, seek medical attention.
- Follow standard safety practices when handling cement-based materials.

AVAILABILITY

Distributed by:

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DISCLAIMER

This technical data sheet is provided for general informational purposes only. It is the user's responsibility to assess the suitability of the product for their specific application. MTA Tile Adhesive Specialist Sdn Bhd accepts no liability for any loss, damage, or injury resulting from improper use or installation. Specifications are subject to change without prior notice as part of our continuous product improvement efforts.