

GEM (TYPE 1) - Tile Adhesive

TECHNICAL DATASHEET

PRODUCT DESCRIPTION:

Viacrete Standard Adhesive is a high-quality, polymer-modified grey cementitious adhesive designed for fixing ceramic tiles on internal walls and floors. It comes in a ready-to-use, pre-blended form and is suitable for a variety of cement-based substrates. The adhesive is water-resistant, easy to apply, and formulated to prevent tile cracking.

Technical Details

Parameter	Result
Colour	Grey
Mixing Ratio (Powder:Water)	3.5:1
Bulk Density	1.3 – 1.5 gm/cc
Mixing Density	1.7 – 1.9 gm/cc
Pot Life	> 2 Hours
Open Time	20 Minutes
Adjustability	~20 Minutes
Final Setting Time	24 Hours
Max. Bed Thickness	12 mm
Time to Light Foot Traffic	16 – 24 Hours
Ready for Grouting	24 Hours
Ready for Use	14 Days

SUITABLE FOR

MATERIAL & AREA

- ✔ High porosity tiles (ceramic, porcelain, terracotta, quarry)
- ✔ Internal floor and wall installations
- ✔ Residential and commercial dry areas

COMPATIBLE SUBSTRATES

- ✔ Cement mortar beds
- ✔ Cement-based plaster
- ✔ Concrete surfaces
- ✔ Cement-based screeds
- ✔ Cement terrazzo
- ✔ Brick masonry
- ✔ AAC block masonry
- ✔ Concrete block masonry

INSTALLATION GUIDELINES

1. SURFACE PREPARATION

Ensure the surface complies with standards and is level, clean, dry, and free of dust, oil, or any debonding agents. Dampen highly absorbent substrates with clean water before application.

2. MIXING INSTRUCTIONS

- ✔ Use 5–6 litres of potable water for every 20 kg of adhesive.
- ✔ Add the powder into water gradually while mixing with a low-speed mixer (<500 rpm).
- ✔ Mix for 2–3 minutes to achieve a smooth, uniform paste.
- ✔ Allow the mix to stand (mature) for 4–5 minutes.
- ✔ Remix briefly for 15 seconds before application. Avoid over-mixing.

GEM (TYPE 1) - Tile Adhesive

TECHNICAL DATASHEET

3. APPLICATION

- ✔ Apply the adhesive with the flat edge of a notched trowel, then comb with the notched side.
- ✔ For tiles larger than 600x600 mm, back-butter the tiles with additional adhesive.
- ✔ Press tiles firmly and use a rubber mallet to bed them properly.
- ✔ Use spacers to maintain even joints and expansion spacing.

4. GROUTING

Begin grouting after 24 hours using Viacrete-approved cementitious or epoxy grout.

5. CLEANING

Clean excess adhesive from tiles and tools immediately using a damp sponge or cloth.

COVERAGE

Approximately 55–60 sq. ft. per 20 kg bag at 3 mm bed thickness (using a 6mm x 6mm notched trowel). Actual coverage may vary based on substrate conditions and application technique.

SHELF LIFE

12 months from the date of manufacture if stored in original packaging in a cool, dry place away from sunlight and moisture.

LIMITATIONS

Tile adhesives and grouts are not substitutes for waterproofing membranes. When waterproofing is required, use Viacrete Waterproof Solutions or other appropriate systems. Do not use on wet, vibrating, or deformable substrates, or for correcting surface irregularities greater than 12 mm.

IMPORTANT NOTES

- ✔ Always add powder to water, never the reverse.
- ✔ Do not exceed the recommended water quantity.
- ✔ Do not mix with extra cement or sand.
- ✔ Do not apply on wet screeds or uncured concrete (wait at least 28 days).
- ✔ Use appropriate notched trowels for the desired adhesive thickness.
- ✔ For tile/stone larger than 600x600 mm or installed above 3m height, consider additional mechanical support.
- ✔ Protect freshly laid tiles from direct water exposure and foot traffic for at least 24 hours.
- ✔ For highly absorbent tiles or surfaces, back-buttering is recommended using Viacrete Ultrabond.

SAFETY PRECAUTIONS

- ✔ Keep out of reach of children.
- ✔ Wear gloves, protective clothing, and eye protection.
- ✔ In case of contact with eyes or skin, rinse immediately with clean water.
- ✔ Seek medical attention if irritation persists.