

Technical Data Sheet



KonTile Standard

Polymer-Based Tile Adhesive

Description

KonTile Standard is a polymer-based tile adhesive for ceramic, vitrified, and natural stone tiles. It works on vertical and horizontal cement-based surfaces, including tile-on-tile applications, in dry and wet indoor areas. The proposed technical positioning follows the KonTile Standard TDS structure and application profile.

Performance claims and numerical test values below are reproduced from the supplied KonTile Standard TDS as the requested target specification for KonTile Standard. They should be treated as proposed/target values until KonTile Standard has been tested and verified on the final formulation.

Surface Application Materials

- Semi vitreous tiles
- Small format natural stones
- Precast terrazzo
- Ceramic tiles (all types)
- Terracotta tiles

Recommended Surfaces/Substrates

- Brickwork & AAC blocks
- Concrete surfaces
- Cement-based screeds & mortar beds
- Cement-plastered & rendered surfaces
- Other cement-based substrates
- Existing tiled & stone surfaces

Application Areas

- New construction & renovation-External shaded & open areas
- Residential & commercial projects
- Flooring & walls
- Internal applications

Product Highlights

- Strong bonding – Excellent adhesion to various cement-based surfaces for long-lasting durability.
- Easy to prepare – Just mix with water, and it is ready to apply.
- No sagging.
- Low Emission – Ensures a healthier indoor environment with minimal emissions.

Technical Details

Properties	KonTile Standard Values
Open Time (20 Minutes at 28°C)	100–105 psi (0.69–0.72 MPa)
Sag	0.021–0.023 in (0.53–0.58 mm) (approx)
Glazed wall tile – 7 Days	205–230 psi (1.41–1.59 MPa)
7 Days Water Immersion	155–180 psi (1.07–1.24 MPa)
Porcelain Mosaic – 1 Day	80–105 psi (0.55–0.72 MPa)
Porcelain Mosaic – 7 Days	180–205 psi (1.24–1.41 MPa)
7 Days Water Immersion	155–180 psi (1.07–1.24 MPa)
28 Days	180–205 psi (1.24–1.41 MPa)
12 Weeks	180–205 psi (1.24–1.41 MPa)

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Application Instructions

Substrate Preparation Guidelines

- **CLEAN & SOLID BASE** – Make sure the floor or wall is completely clean (no dust, grease, or dirt) and strong enough to hold the tiles.
- **FLAT & EVEN** – The surface should be straight and smooth, with no bumps or dips deeper than 6 mm over a 3-meter (10 ft) area.
- **DRY & STABLE** – There should be no moisture, dampness, or oily stains that could weaken the bonding.
- **DAMPEN IF NEEDED** – If the surface is too dry or powdery, lightly wet it before applying adhesive—but do not leave puddles.
- **FRESH CONCRETE** – If using new concrete, let it harden for at least 4 weeks (28 days) to avoid cracks from shrinking.
- **LEAVE GAPS FOR MOVEMENT** – Always include small gaps between tiles in large areas. Fill these with suitable tile joint grouts—never cover them with tiles or glue.

How to Mix the Adhesive

- **MIXING RATIO** – For 20 kg bag, use about 5.5 to 6.5 litres of water, adjusting slightly for the desired consistency.
- **MIXING METHOD** – Add powder to potable water in a clean vessel. Use a slow drill (50–100 rpm) or mechanical mixer.
- **REST & REMIX** – Keep the mix for 5 minutes, then stir again before use.
- **USE IT FRESH** – Only mix what you can use before it hardens. Do not add more water after mixing.

Step By Step Tile Application Guide

- **PREPARING THE SURFACE** – Spread KonTile Standard adhesive using the flat side of a notched trowel for a thin, even base layer. Then comb adhesive with the notched side to create uniform ridges for better tile adhesion.
- **TROWEL SIZE** – Small tiles (up to 30×30 cm): 6 mm notches; Medium tiles (30×60 cm): 8–10 mm notches; Large tiles (60×60 cm+): 10–12 mm notches.
- **SETTING THE TILES** – Place tiles within 15–20 minutes. If adhesive forms a dry film, scrape it off and reapply fresh adhesive. Press and twist firmly; use a rubber mallet for alignment.
- **ENSURING FULL COVERAGE** – Back-butter tiles where required and press firmly to eliminate air pockets.
- **SPACING & ALIGNMENT** – Use tile spacers and remove excess adhesive immediately from tile surfaces and joints.
- **SPECIAL CASES** – For walls/vertical surfaces use temporary supports until adhesive sets. For natural stone, pre-treat with a suitable deep-penetrating sealer to prevent staining.

Pro Tips & Precautions

- Work in small sections (1–2 m² at a time).
- Test adhesive on a sample area if unsure about porosity or weather effects.
- Never stretch adhesive by adding water—remix fresh batches instead.

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Product Specifications & Storage Guidelines

Items	Details
Available Packaging – Grey	5 kg, 20 kg
Available Packaging – White	20 kg
Shelf Life	12 months from manufacturing date
Storage	Original sealed packaging; cool, dry place (10–30°C / 50–86°F)
Protection	Direct sunlight, moisture /humidity & temperature extremes (<5°C or >35°C)
Quality Check	Discard if bags are torn or contents show hardening

Grouting Instructions

- WAITING TIME – Begin grouting after 24 hours of tile installation.
- APPLICATION TIP – Maintain uniform joint gaps according to project specifications before grout application.

Coverage Details

- 20 kg bag: 5–6 m² (3 mm thickness, 6×6 mm trowel).
- 30 kg bag: 7.5–8 m² (3 mm thickness, 6×6 mm trowel).
- Usage rate: approximately 1.2 kg/m² per 1 mm thickness.
- Coverage varies with trowel size and technique, tile size/material, and surface flatness/porosity.

Safety & Application Guide Lines

- Always wear protective gloves, clothing and eye/face protection during handling.
- Keep product out of reach of children.
- Designed for professional use only – not suitable for consumers.
- Skin contact: wash immediately with clean water.
- Eye contact: rinse thoroughly with clean water for 15 minutes and seek immediate medical attention.
- Always add powder to water—never reverse this order.
- Strictly follow recommended water quantities; excess water compromises strength.
- Never mix with cement, sand or other additives on-site.
- Substrate must be completely dry and fully cured before application.
- Suitable for wet screeds or fresh concrete.
- Maximum allowable surface irregularity: 15 mm; use a levelling compound for greater variations.
- Protect installed tiles from rain and foot traffic for minimum 24 hours.
- For high-rise applications or heavy cladding, consult a structural engineer, consider supplemental mechanical fastening and verify substrate load capacity.

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Performance Limitations

- Not designed as a levelling compound.
- Environmental conditions may affect curing time.
- Always test application when uncertain about substrate conditions.

General Terms & Conditions

This document has been prepared as a proposed KonTile Standard TDS using the supplied KONTILE STANDARD TDS as the requested technical template and target specification. The numerical values, test methods, requirements, standards and mixing ratio above should be released as product claims only after the final KonTile Standard formulation has been tested and the results verified.

