

Technical Data Sheet



KonTile Basic

Polymer-Based Tile Adhesive

Description

KONTILE Basic is a high-performance, polymer-based adhesive specially designed for installing small types of natural stone tiles and ceramic tiles. It is suitable for horizontal applications in dry environments, making it ideal for indoor use. KONTILE Basic is intended for commercial spaces and applications requiring reliable performance under heavy traffic.

Suitable Tile Material

- Small natural stones
- Small-format tiles
- Precast terrazzo
- Ceramic tiles
- Terracotta tiles

Recommended Surfaces/Substrates

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

Application Areas

- Dry areas
- Internal flooring
- Terraces, balconies & podium decks
- Residential applications

Product Highlights

- EASY TO USE – Simply mix with water at the site, with no complicated preparation required.
- IDEAL FOR INDOOR APPLICATIONS – Perfect for floors in interior spaces.

- STRONG ADHESION – Binds effectively to cement-based surfaces for a reliable and lasting hold.
- SELF-CURING FORMULA – Automatically cures without extra steps, saving time and reducing labour
- LOW VOC EMISSION – Designed to support healthier indoor air quality with minimal chemical emissions.

Technical Details

Properties	KonTile Basic Values
Open Time (20 min at 28°C)	97–102 psi (0.67–0.70 MPa)
Sag	0.018–0.020 in (0.46–0.51 mm)
Glazed wall tile shear strength – 7 Days	202–227 psi (1.39–1.56 MPa)
Glazed wall tile – 7 Days Water Immersion	152–177 psi (1.05–1.22 MPa)
Porcelain Mosaic – 1 Day	52–77 psi (0.36–0.53 MPa)
Porcelain Mosaic – 7 Days	152–177 psi (1.05–1.22 MPa)
Porcelain mosaic tile – 7 Days Water Immersion	127–152 psi (0.88–1.05 MPa)

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Application Instructions

Substrate Preparation Guidelines

- **CLEAN & STABLE SURFACE** – Ensure that the surface to be tiled is structurally sound, free from dust, dirt, oil, grease, paint, curing compounds, and loose particles that may compromise adhesion.
- **EVEN & LEVEL BASE** – The substrate should be plumb and level with a maximum surface variation of 6 mm over a span of 3 meters (10 feet), in order to ensure uniform tile placement and alignment.
- **DRY & MOISTURE-CONTROLLED** – The surface must be dry and free from rising damp or residual moisture; excess moisture can adversely affect bonding strength and performance.
- **PRE-WET IF NECESSARY** – On very dry or highly absorbent substrates, lightly dampen the surface before application, ensuring no standing water remains.
- **CURE NEW CONCRETE** – New cement-based substrates, such as screeds or concrete slabs, must be properly cured for a minimum of 28 days to reduce shrinkage and ensure a stable, well-bonded surface.
- **PRESERVE EXPANSION JOINTS** – Any expansion or movement joints must remain unfilled by tile adhesive or tiles and should be filled with a suitable flexible joint sealant to allow structural movement.

How to Mix the Adhesive

- **MIXING RATIO** – For 20 kg bag, use 5.5 to 6.5 litres of water, adjusting for desired consistency.
- **BLENDING PROCESS** – Mix the powder and water in a clean container using a low-speed drill or mechanical stirrer (50–100 rpm) until a smooth, homogeneous, and lump-free paste is formed.
- **RESTING PERIOD** – Allow the mixed adhesive to stand for approximately 5 minutes before application; this allows the polymers to activate. Stir again briefly before use.
- **APPLICATION CAUTION** – Always mix only the quantity that can be applied within the pot life of the adhesive. Do not add water once the mixture has started to set, as this will weaken adhesive strength.

Step By Step Tile Application Guide

- **SURFACE PREPARATION** – Use the flat side of a notched trowel to apply a layer of KONTILE Basic evenly over the substrate. Then use the notched side to comb the adhesive into uniform ridges for better bonding.
- **RECOMMENDED NOTCH SIZE** – Small tiles (up to 30×30 cm): 6 mm notch.
- **TILE PLACEMENT** – Work section by section and lay the tiles within 15–20 minutes of applying the adhesive, as drying time can vary depending on site conditions and substrate porosity.
- Check frequently for skin formation on the adhesive layer. If present, remove and reapply fresh adhesive.
- Press the tile firmly into the adhesive using a slight twisting action, ensuring full contact with the tile back. Use a rubber mallet to gently tap the tile and ensure it is level and properly aligned.
- **ACHIEVING FULL ADHESION** – Apply a thin layer of adhesive (back-buttering) on the rear side of the tile to guarantee full coverage and strong bonding. Ensure there are no air gaps or voids behind the tiles.
- **SPACING & CLEANING** – Use tile spacers between tiles to maintain uniform joint widths as per project specifications. Clean excess adhesive from the tile surface and joints using a damp sponge or cloth before it sets completely.

Pro Tips & Precautions

- Protect the tiled surface from water exposure and foot traffic for at least 24 hours after installation.
- Do not alter the adhesive mixture by adding sand, cement, or any other on-site additives.
- Always follow the correct water-to-powder ratio; adding excess water may reduce strength and bonding.
- Always add powder to water during mixing, never the other way around, to ensure a smooth, even blend.

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- Do not use to correct surface level differences exceeding 15 mm; use a suitable leveling compound in such cases.
- Ensure that substrates such as screeds or concrete surfaces are fully cured before tiling to prevent shrinkage or detachment.

Grouting Instructions

- **WAITING TIME BEFORE GROUTING** – Grouting should commence only after 24 hours of tile installation to allow sufficient curing and bonding of KONTILE Basic.
- **RECOMMENDED GROUT PRODUCTS** – For best compatibility and performance, use high-quality cementitious or epoxy-based grouts (HYDAPOXY 711, HYDAPOXY 712) suitable for the tile type and application environment.
- **APPLICATION TIP** – Prior to grouting, maintain uniform spacing between tiles using spacers or as per architectural guidance to achieve a consistent and aesthetically pleasing finish.

Coverage Details

- 20 kg bag: 5–6 m² at 3 mm thickness (using a 6×6 mm notched trowel).
- Factors affecting coverage: Trowel size & application technique; tile size & material; surface smoothness & porosity..

Available Packing

- 20 kg bag – Ideal for small to medium-sized installations or repair work.

Shelf Life & Storage

- Shelf life: Up to 12 months from the manufacturing date, provided it is stored under suitable conditions to prevent moisture ingress or hardening.
- Always store in its original, tightly sealed packaging until ready to use.
- Store in a cool and dry area, ideally maintaining 10°C to 30°C.

- Protect from direct sunlight, high humidity or damp conditions, and extreme temperatures, particularly below 5°C or above 35°C.
- Quality check: Before use, inspect the bag for damage. If packaging is compromised or contents are hardened or lumpy, discard the product.

Safety & Application Guide Lines

- **PERSONAL PROTECTION** – Wear protective gloves, clothing, and eye/face protection while handling. Keep out of reach of children. To be used exclusively by trained professionals and experienced contractors.
- **SKIN CONTACT** – Wash immediately with plenty of clean water.
- **EYE CONTACT** – Rinse thoroughly with water for 15 minutes and seek medical attention.
- **MIXING INSTRUCTIONS** – Always add KONTILE Basic powder into clean water—never add water to the powder. Follow approximately 5.5–6.5 litres of water for every 20 kg of powder. Do not add cement, sand, or other materials.
- **SURFACE PREPARATION** – Substrate must be completely dry, fully cured (minimum 28 days), and level. Do not use on uncured screeds or green concrete. For surfaces uneven by more than 15 mm, apply a separate leveling compound beforehand.
- **INSTALLATION & PROTECTION** – Shield the tiled surface from rain, water, dust, mechanical loads, or foot traffic for a minimum of 24 hours.
- **HIGH-RISE / LARGE OR HEAVY TILES** – Consult a structural engineer where appropriate; consider additional mechanical fasteners such as steel hooks or anchors where needed; confirm substrate load-bearing capacity before proceeding.

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Performance Limitations

- KONTILE Basic is not intended to be used as a self-leveling material. If leveling is required, apply a suitable floor or wall leveling compound first.
- The adhesive's curing time may vary depending on temperature, humidity, and air movement at the job site.
- If there is any uncertainty regarding substrate condition or tile compatibility, conduct a small patch test prior to full-scale application.

General Terms & Conditions

This document has been prepared as a proposed KonTile Basic TDS using the supplied KONTILE Basic 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 Basic formulation has been tested and the results verified.

