ALSHOULA

PORCELAIN TILE ADHESIVE

High-Performance Polymer-Modified Cementitious Tile Adhesive

Product Description

ALSHOULA PORCELAIN TILE ADHESIVE is a high-performance, polymer-modified cement-based adhesive designed for the installation of porcelain, vitrified, ceramic tiles and selected natural stones.

The product is supplied as a ready-to-mix dry powder, requiring only the addition of clean water before application. Its specially formulated composition provides high adhesion strength, extended open time, excellent slip resistance and improved flexibility.

Suitable for interior and exterior applications on properly prepared cement-based substrates, including floors and walls. Available in White and Grey.

Features and Benefits

- High adhesion strength for porcelain and low-absorption tiles.
- Extended open time for improved installation flexibility.
- Excellent slip resistance for vertical tile applications.
- Improved deformability to accommodate minor substrate movements and thermal variations.
- Smooth consistency and easy application.
- Suitable for interior and exterior installations.
- Available in White and Grey to suit different tile types and installation requirements.

Areas of Application

Suitable Applications

- Porcelain and vitrified tiles; ceramic wall and floor tiles.
- Large-format tiles, subject to appropriate application technique.
- Selected natural stone tiles, subject to compatibility testing.
- Interior floors and walls; exterior floors, balconies and terraces.
- Bathrooms, kitchens and other areas exposed to moisture.
- Commercial and residential buildings.

Suitable Substrates

- Concrete and cement-sand screeds.
- Cement-based plaster and rendering.
- Stable masonry and blockwork.
- Existing ceramic and stone surfaces, subject to proper preparation and priming where required.

Limitations

- Not suitable for direct application on wood, metal, bituminous surfaces or gypsum-based substrates without an approved bonding system.
- Not suitable for substrates affected by rising damp or negative water pressure.
- Not recommended for moisture-sensitive or stain-sensitive natural stones without prior compatibility testing.
- Swimming pools and permanently submerged applications require a dedicated adhesive system approved for such conditions.
- Exterior façade installations must comply with applicable building regulations and mechanical fixing requirements.

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TECHNICAL DATA

Technical Properties

The following values are indicative technical specifications and must be confirmed by laboratory testing before final publication.

Property	Specification
Product Type	Cement-based tile adhesive
Classification	C2TES1*
Appearance	Dry powder
Available Colours	White / Grey
Mixing Water	4.0-5.0 L per 20 kg
Fresh Mortar Density	Approx. 1.5 g/cm³
Application Temperature	+5°C to +35°C
Service Temperature	-30°C to +90°C
Pot Life	Approx. 2 hours
Open Time	≥ 30 minutes
Adjustment Time	Approx. 25-30 minutes
Slip Resistance	≤ 0.5 mm
Initial Tensile Adhesion Strength	≥ 1.1 N/mm²
Adhesion after Water Immersion	≥ 1.0 N/mm²
Adhesion after Heat Ageing	≥ 1.0 N/mm²
Adhesion after Freeze-Thaw Cycles	≥ 1.0 N/mm²
Transverse Deformation	≥ 2.5 mm and < 5 mm
Consumption	Approx. 1.3-1.5 kg/m²/mm

*The C2TES1 classification is subject to verification through the relevant standardised laboratory tests.

Reference Test Standards

- EN 12004-1 - Classification and requirements for ceramic tile adhesives.
- EN 1348 - Determination of tensile adhesion strength.
- EN 1346 - Determination of open time.
- EN 1308 - Determination of slip.
- EN 12002 - Determination of transverse deformation.

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APPLICATION GUIDE

Surface Preparation

All substrates must be structurally sound, stable and properly cured. Surfaces must be clean and free from dust, oil, grease, loose particles, laitance, paint residues and other contaminants that may affect adhesion.

- Concrete surfaces must be sufficiently cured and free from weak surface layers.
- Cement-based screeds and plaster must be properly cured before application.
- Masonry surfaces must be stable, clean and free from loose mortar.
- Existing tiles must be firmly bonded, thoroughly cleaned and properly prepared.
- Highly absorbent substrates may require controlled dampening or an appropriate primer.
- Waterproofing membranes must be fully cured before tile installation. The product is an adhesive and is not intended for correcting significant surface irregularities. Substrates must be levelled before application where necessary.

Mixing Instructions

- Pour the recommended quantity of clean water into a clean mixing container.
- Gradually add the dry powder while mixing continuously.
- Mix using a low-speed mechanical mixer until a smooth, homogeneous and lump-free consistency is obtained.
- Allow the mixture to stand for approximately 5 minutes.
- Remix briefly before application. Use the prepared mixture within its specified pot life. Do not add additional water to adhesive that has started to set. Do not mix with cement, sand, lime or other unapproved additives.

Application Method

- Apply a thin contact layer of adhesive to the prepared substrate using the smooth edge of a notched trowel.
- Apply additional adhesive and comb it using the notched edge of the trowel, maintaining consistent ridges.
- Spread only the quantity that can be covered with tiles within the specified open time.
- Place the tiles onto the fresh adhesive and press firmly with a slight twisting movement to ensure proper contact.
- Adjust tile positioning within the specified adjustment time.
- Periodically lift a tile to check adhesive coverage and ensure adequate contact between the tile and substrate.
- Remove excess adhesive from tile joints before it hardens. For large-format tiles, exterior installations and areas exposed to moisture, back-buttering is recommended to achieve maximum adhesive coverage.

Recommended Trowel Selection

Tile Size	Recommended Trowel
Small tiles up to 20 × 20 cm	6 mm
Medium tiles up to 40 × 40 cm	8 mm
Large tiles up to 60 × 60 cm	10 mm
Extra-large tiles above 60 × 60 cm	12 mm

Trowel selection may vary depending on substrate flatness, tile back profile and installation conditions.

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HANDLING & SUPPLY

Grouting and Curing

Stage	Recommended Time
Light Foot Traffic	After 24 hours
Grouting	After 24 hours
Heavy Traffic	After 7 days
Full Water Exposure	Subject to application system approval and full curing

Curing times may vary depending on temperature, humidity, substrate absorption, tile size and installation thickness.

Protect freshly installed tiles from rain, direct sunlight, strong wind and freezing conditions during the initial curing period.

Movement and expansion joints must be maintained throughout the tiled surface and filled with suitable flexible sealants.

Consumption

Approximate consumption: 1.3-1.5 kg/m² per 1 mm of application thickness. Actual consumption depends on substrate condition, tile dimensions, trowel size, tile back profile and application technique.

Adhesive Thickness	Approx. Consumption	Coverage per 20 kg Bag
3 mm	3.9-4.5 kg/m²	4.4-5.1 m²
4 mm	5.2-6.0 kg/m²	3.3-3.8 m²
5 mm	6.5-7.5 kg/m²	2.7-3.1 m²

Packaging

- 20 kg multi-layer paper bags with moisture-resistant inner lining.
- Available in White and Grey.

Storage and Shelf Life

Shelf life is 12 months from the date of manufacture when stored in original, unopened and undamaged packaging.

Store in a dry, cool and well-ventilated area, protected from moisture, rain and direct sunlight. Bags must be stored on pallets and kept away from direct contact with the floor and walls.

Do not use material showing signs of moisture contamination or hardened lumps.

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SAFETY & SUPPORT

Health and Safety

This product contains cement and may cause irritation due to its alkaline nature when mixed with water.

- Avoid inhalation of dry powder.
- Wear suitable protective gloves, safety goggles and a dust mask during handling and application.
- Avoid prolonged skin contact.
- In case of eye contact, rinse immediately with plenty of clean water and seek medical attention.
- In case of skin contact, wash thoroughly with soap and water.
- Keep out of reach of children. Refer to the product Safety Data Sheet (SDS) for complete health and safety information.

Important Notes

- Apply only within the recommended temperature range.
- Do not apply onto frozen, unstable or contaminated surfaces.
- Use clean water and suitable mixing equipment.
- Do not exceed the recommended water ratio.
- Do not use adhesive that has exceeded its pot life.
- Conduct a preliminary adhesion test when working with unfamiliar substrates or special tile materials.
- Follow the applicable installation standards and project specifications.

Manufacturer Information

Item	Details
Manufacturer	ALSHOULA ADHESIVES FACTORY
Product	ALSHOULA PORCELAIN TILE ADHESIVE
Packaging	20 kg
Colours	White / Grey
Shelf Life	12 Months
Document	Technical Data Sheet (TDS)
Revision	01
Date	November 2026

Disclaimer

The technical information provided in this document is based on laboratory testing and practical experience. Actual performance may vary depending on substrate conditions, environmental factors and application methods.

The user is responsible for ensuring the suitability of the product for the intended application and for following the recommended installation procedures. The manufacturer reserves the right to update product specifications as part of ongoing product development.