ALSHOULA

POOL TILE ADHESIVE

High-Performance Polymer-Modified Cementitious Adhesive for Swimming Pools

Product Description

ALSHOULA POOL TILE ADHESIVE is a high-performance, polymer-modified cement-based adhesive specially developed for fixing ceramic, porcelain, and glass mosaic tiles in swimming pools, fountains, and other water-retaining structures.

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, excellent workability, slip resistance, and improved deformability, making it suitable for demanding wet-area and submerged applications.

Designed for use on properly prepared cementitious substrates and compatible waterproofing systems, the product provides reliable tile bonding under continuous water exposure, subject to correct installation and curing procedures.

Available Colours: White and Grey.

Features and Benefits

- High Adhesion Strength: Provides strong bonding performance for ceramic, porcelain, and glass mosaic tiles, including applications exposed to continuous water immersion.
- Water Immersion Resistance: Formulated to maintain bonding performance under prolonged water exposure when used as part of a suitable pool installation system.
- Excellent Slip Resistance: Helps prevent tile movement during vertical wall installation.
- Improved Flexibility (S1): Accommodates limited substrate movement and thermal variations within the tile installation system.
- Extended Open Time: Provides sufficient working time for accurate tile positioning and installation.
- Smooth Workability: Produces a creamy, homogeneous, and easy-to-apply consistency.
- Versatile Applications: Suitable for swimming pools, fountains, water features, and other approved water-retaining structures.
- Colour Options: Available in White and Grey, suitable for different tile types and aesthetic requirements.

Areas of Application

Suitable Applications

- Swimming pools and pool tanks.
- Decorative fountains and water features.
- Water reservoirs and water-retaining structures.
- Jacuzzis and similar wet-area installations.
- Ceramic and porcelain pool tiles.
- Glass mosaic tiles.
- Selected natural stones, subject to compatibility testing.

Suitable Substrates

- Fully cured concrete.
- Cement-based screeds.
- Cement-based renders and plasters.
- Compatible cementitious waterproofing membranes.
- Properly prepared and approved water-retaining substrates.

Limitations

- Not suitable for application over weak, unstable, dusty, painted, or contaminated surfaces.
- Not suitable for substrates affected by active negative water pressure or rising damp.
- Not intended for direct application on wood, metal, bituminous, or gypsum-based surfaces without an approved bonding system.
- Moisture-sensitive and stain-sensitive natural stones require preliminary compatibility testing.
- The adhesive does not replace the waterproofing system or structural water-retaining design.
- The complete waterproofing, adhesive, tile, and grout system must be suitable for continuous immersion.
- Pool filling must be delayed until the adhesive and grout have achieved the required curing and the complete installation system is ready for immersion.

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لاصق الشعلة
Lasiq alshoula

TECHNICAL DATA

Technical Properties

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

Property	Specification / Value
Product Type	Polymer-modified cement-based tile adhesive
Classification	C2TES1*
Appearance	Dry powder
Available Colours	White / Grey
Mixing Water	4-5 L per 20 kg bag
Fresh Mortar Density	Approx. 1.5 g/cm³
Application Temperature	+5°C to +35°C
Open Time	Approx. 20 minutes
Adjustment Time	Approx. 25-30 minutes
Initial Tensile Adhesion Strength	> 1.3 N/mm²
Adhesion after Water Immersion	To be confirmed by laboratory testing
Adhesion after Heat Ageing	To be confirmed by laboratory testing
Adhesion after Freeze-Thaw Cycles	To be confirmed by laboratory testing
Slip Resistance	≤ 0.5 mm
Transverse Deformation	S1: ≥ 2.5 mm and < 5 mm
Consumption	Approx. 1.3-1.5 kg/m²/mm

The C2TES1 classification must be verified through the applicable laboratory tests in accordance with EN 12004-1 and ISO 13007-1.

Classification Reference

- C: Cementitious adhesive.
- 2: Improved adhesive performance.
- T: Reduced slip, with a maximum permitted slip of 0.5 mm.
- E: Extended open time, with the required adhesion performance maintained after the specified exposure period.
- S1: Deformable adhesive with transverse deformation of at least 2.5 mm and less than 5 mm.

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, sufficiently cured, and completely free from dust, grease, oil, laitance, loose particles, and other contaminants that may affect adhesion.

- Concrete surfaces must be fully cured and suitable for water-retaining applications.
- Cement-based screeds and renders must be properly cured before application.
- Remove all weak or friable surface layers.
- Repair cracks, surface defects, and irregularities using suitable repair materials.
- Waterproofing membranes must be fully cured and compatible with the adhesive.
- Waterproofing systems should be inspected and leak-tested before tile installation.
- Dry, absorbent cementitious surfaces may be lightly dampened where appropriate, ensuring no standing water remains.

Mixing Instructions

1. Pour the recommended quantity of clean water into a clean mixing container.

2. Gradually add the dry powder while mixing continuously.

3. Mix using a low-speed mechanical mixer until a smooth, homogeneous, and lump-free paste is obtained.

4. Allow the mixture to stand for approximately 5 minutes.

5. Remix briefly before application.

Use the prepared adhesive within its specified workable life.

Important Warning: 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

1. Apply a thin contact layer of adhesive onto the prepared substrate using the flat side of a notched trowel.

2. Apply additional adhesive and comb it using the notched edge to create uniform ridges.

3. Spread only the quantity that can be covered with tiles within the specified open time.

4. For submerged applications, glass mosaics, and large-format tiles, use an appropriate back- buttering or double-spreading technique to achieve full adhesive contact.

5. Place tiles firmly into the fresh adhesive using a slight twisting movement.

6. Check adhesive coverage periodically by lifting recently installed tiles.

7. Ensure continuous adhesive contact without voids or air pockets behind the tiles.

8. Maintain clean joints and use appropriate spacers to achieve consistent joint widths.

9. Remove excess adhesive from tile joints before it hardens.

CRITICAL MANDATE: Full adhesive coverage is essential for submerged applications. Voids behind tiles may allow water accumulation and negatively affect long-term installation

performance.

Important Working Notes

- Apply only when air and substrate temperatures are between +5°C and +35°C.
- Do not apply onto frozen, unstable, excessively hot, or contaminated surfaces.
- Use clean water and suitable mixing equipment.
- Do not exceed the recommended water ratio.
- Do not use adhesive after it has exceeded its workable life or started to set.
- Ensure that the waterproofing membrane is fully cured and compatible with the adhesive.
- Ensure full adhesive coverage behind tiles in submerged applications.
- Use a grout specifically designed for continuous water immersion.
- Do not fill the pool before the required curing period has been completed.

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HANDLING & SUPPLY

Grouting, Curing and Pool Filling

Stage	Recommended Time / Guidance
Light Foot Traffic	Avoid for at least 24 hours
Grouting	Typically after 24-48 hours
Pool Filling	Minimum 7-14 days, subject to system requirements and curing conditions
Environmental Protection	Protect freshly installed surfaces from rain, direct sunlight, strong wind, and freezing during initial curing

- Curing Variations: Curing times depend on temperature, humidity, substrate absorption, tile dimensions, adhesive thickness, and the type of grout used.
- Pool Filling Protocol: The recommended pool-filling period must be confirmed against the complete installation system requirements. Do not fill the pool until the adhesive and grout have achieved the required curing and the waterproofing system is approved for immersion.
- Grout Specification: Use a suitable waterproof or epoxy grout specifically designed for swimming pools and continuous water exposure.
- Movement Joints: Maintain all structural and movement joints through the tiled surface and seal them with an appropriate flexible sealant.

Consumption

Approximate consumption: 1.3-1.5 kg/m² per 1 mm of application thickness.

- Actual consumption depends on substrate flatness, tile dimensions, trowel notch size, tile backing profile, and application technique.
- For submerged installations, full adhesive coverage and back-buttering may increase actual consumption.

Packaging

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

Storage and Shelf Life

- Shelf Life: 12 months from the date of manufacture when stored in original, unopened, and undamaged packaging.
- Storage Conditions: Store in a dry, cool, and well-ventilated area, protected from moisture, rain, and direct sunlight.
- Pallet Handling: Keep bags elevated on pallets and away from direct contact with floors and walls.
- Inspection: 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.

Standards and Compliance

The product is intended to meet the C2TES1 classification requirements under EN 12004-1 and ISO 13007-1, subject to successful completion of the applicable laboratory tests.

Relevant Test Methods

- EN 1348 - Tensile adhesion strength.
- EN 1346 - Open time.
- EN 1308 - Slip resistance.
- EN 12002 - Transverse deformation.

Laboratory test reports and technical documentation should be maintained by the manufacturer to support the declared product classification.

Manufacturer Information

Item	Details
Manufacturer	ALSHOULA ADHESIVES FACTORY
Product	ALSHOULA POOL 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, water exposure, and application methods.

The user is responsible for ensuring the suitability of the complete installation system 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.