ALSHOULA
SUPER FLEX TILE ADHESIVE

High-Performance Flexible Cementitious Tile Adhesive

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1. Product Description

ALSHOULA SUPER FLEX TILE ADHESIVE is a high-performance, polymer-modified cementitious adhesive supplied as a single-component dry powder requiring only the addition of clean water.

It is specially formulated to provide high bond strength and improved flexibility, helping accommodate thermal expansion, contraction and limited movement between the tile and substrate.

The product is designed for installing porcelain tiles, ceramic tiles, large-format slabs and suitable natural stone on interior and exterior walls and floors.

2. Areas of Application

- Porcelain & Ceramic: Installation of porcelain and ceramic tiles.
- Large-Format Slabs: Installation of large-format porcelain slabs.
- Natural Stone & Marble: Installation of suitable natural stone, marble and granite.
- Walls & Floors: Interior and exterior wall and floor applications.
- Thermal Variations: Applications exposed to thermal variations.
- Commercial & Residential: Commercial and residential flooring applications.
- Substrates: Suitable concrete and cement-based substrates.

3. Features and Benefits

- High Bond Strength: Provides strong adhesion to suitable cementitious substrates and low-absorption tiles.
- Improved Flexibility: Helps accommodate thermal expansion, contraction and limited substrate movement.
- Reduced Vertical Slip: Helps prevent tile movement during installation on vertical surfaces.
- Extended Open Time: Provides sufficient working time for tile positioning and adjustment.
- Large-Format Application: Suitable for installing large-format tiles and slabs using the appropriate application technique.
- Interior & Exterior Use: Suitable for both applications when installed under recommended conditions.

AT A GLANCE

PACKAGING	APPLICATION TEMPERATURE	SHELF LIFE
20 kg bags	+5°C to +35°C	12 months

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TECHNICAL DATA

4. Technical Specifications

The following values are indicative target specifications and must be confirmed through appropriate laboratory testing.

Property	Typical Value
Product Type	Polymer-Modified Cementitious Tile Adhesive
Appearance	Fine Dry Powder
Colour	Grey / White
Fresh Density	Approx. 1.65–1.75 kg/L
Mixing Water	Approx. 5.5–6.0 L per 20 kg bag
Target Classification	C2TE S1
Initial Adhesion Strength	Target ≥ 1.0 N/mm²
Adhesion After Water Immersion	Target ≥ 1.0 N/mm²
Adhesion After Heat Ageing	Target ≥ 1.0 N/mm²
Adhesion After Freeze-Thaw Cycles	Target ≥ 1.0 N/mm²
Slip Resistance	≤ 0.5 mm
Extended Open Time	At least 30 minutes
Transverse Deformation	≥ 2.5 mm and < 5 mm
Pot Life	Approx. 2 hours at 25°C
Application Temperature	+5°C to +35°C
Grouting Time	After at least 24 hours
Packaging	20 kg bags
Shelf Life	12 months

5. Coverage and Consumption

Actual consumption depends on substrate flatness, tile dimensions, trowel size and application technique.

Trowel Size	Approximate Consumption
6 mm	3.0–3.5 kg/m²
8 mm	4.0–4.5 kg/m²
10 mm	4.5–5.5 kg/m²
Double Buttering	6.0–7.0 kg/m²

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APPLICATION GUIDE

6. Application Procedure

6.1 Surface Preparation

- Substrate Integrity: Ensure the substrate is sound, stable and free from dust, oil, grease, loose particles and other contaminants.
- Adhesion Barriers: Remove all materials that may affect adhesion.
- Defect Repair: Repair significant surface defects before application.
- Levelness: Ensure the substrate is sufficiently level for the selected tile dimensions.
- Moistening: Highly absorbent cementitious surfaces may be lightly dampened before application, without leaving standing water.

6.2 Mixing

- Water Addition: Add approximately 5.5–6.0 litres of clean water per 20 kg bag.
- Mixing Method: Gradually add the powder while mixing with a low-speed mechanical mixer (400–600 rpm).
- Mixing Time: Mix for 3–5 minutes until a smooth, homogeneous and lump-free consistency is obtained.
- Resting Time: Allow the mixture to stand for 3–5 minutes.
- Final Remix: Remix briefly for approximately 1 minute before application.

Do not add cement, sand or other additives. Do not retemper the mixture with additional water after setting has begun.

6.3 Application

- Spreading: Apply the adhesive using the flat side of a notched trowel.
- Combing: Comb the adhesive using the notched side to produce uniform parallel ridges.
- Trowel Selection: Select the appropriate trowel size according to tile dimensions and substrate conditions.
- Tile Placement: Place the tiles within the specified open time and press firmly to ensure proper contact.
- Film Removal: Remove adhesive that has formed a dry surface film before installing tiles.

6.4 Large-Format Tiles and Natural Stone

- Double Buttering Technique: Use the double-buttering technique for large-format tiles and slabs.
- Backing Layer: Apply a thin, continuous layer of adhesive to the back of the tile or slab.
- Full Coverage: Ensure full and uniform adhesive coverage, avoiding voids beneath the tile.
- Stone Guidelines: Follow the stone manufacturer’s recommendations for moisture-sensitive natural stone.

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HANDLING & SUPPLY

7. Drying and Grouting

Stage	Indicative Time
Pot Life	Approx. 2 hours at 25°C
Grouting – Floors	After at least 24 hours
Grouting – Walls	After at least 24 hours
Light Foot Traffic	After sufficient hardening

Drying and hardening times depend on temperature, humidity, substrate absorption, tile type and adhesive thickness.
Allow the adhesive to harden sufficiently before grouting or subjecting the installation to service loads.

8. Packaging and Storage

- Packaging: 20 kg multi-layer moisture-resistant paper bags.
- Storage: Store in a cool, dry and covered area. Keep bags on wooden pallets, away from direct contact with floors and walls.
- Protection: Protect from moisture, rain and direct sunlight. Keep bags sealed until use.
- Shelf Life: 12 months from the manufacturing date when stored in original unopened packaging under recommended conditions.

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SAFETY & SUPPORT

9. Safety Precautions

- Hazards: Contains cement and may cause skin and eye irritation.
- PPE: Wear suitable protective gloves, safety goggles and a dust mask during handling and application.
- Avoid Contact: Avoid inhalation of dust and direct contact with skin and eyes.
- First Aid: In case of eye contact, rinse immediately with plenty of clean water and seek medical attention.
- SDS: Refer to the Safety Data Sheet (SDS) for detailed safety information.

10. Important Notes

- Application Scope: The product is intended for bonding tiles and suitable natural stone to properly prepared substrates.
- Waterproofing Notice: It is not a waterproofing membrane.
- Structural Repairs: It is not designed for structural repairs or levelling significant substrate irregularities.
- Compatibility: Ensure compatibility between the adhesive, tile material and substrate.
- Movement Joints: Movement joints must be incorporated according to the installation design.
- Site Performance: Performance and application times may vary depending on site conditions and workmanship.
- Testing: Conduct a preliminary application test when using the product with special or moisture-sensitive natural stone.

11. Manufacturer Information

ALSHOULA ADHESIVES FACTORY
Product: ALSHOULA SUPER FLEX TILE ADHESIVE
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Disclaimer:
The technical information provided in this document represents indicative product specifications based on formulation data and practical application experience. Declared performance values and classification are subject to verification through appropriate laboratory testing. Application conditions, substrate characteristics and workmanship may affect the final results. Users are responsible for conducting suitability tests under actual site conditions before use.