ALSHOULA
SPATTERDASH (BONDING SLURRY)

Polymer-Modified Cementitious Key Coat for Plaster & Render

Doc Code: TDS-MR-006 | Category: Mortars & Repair Systems (Base Works)

1. Product Description

ALSHOULA SPATTERDASH is a factory-preblended, single-component, polymer-modified cementitious bonding slurry designed to create a rough, high-strength mechanical key on smooth, dense, or low-suction concrete and masonry surfaces prior to the application of cement plaster and render.

Formulated with selected Portland cement, graded siliceous aggregates, and specialized redispersible polymers, it produces a coarse, rough-textured bonding coat when mixed with clean water. The resulting surface profile improves the mechanical interlocking and adhesion of subsequent plaster and render layers, helping reduce the risk of debonding and delamination.

2. Areas of Application

- Preparing smooth, dense, or form-finished concrete walls, columns, beams, and soffits prior to plastering.
- Creating a uniform bonding key on precast concrete panels and fair-faced concrete surfaces.
- Improving adhesion at junctions between concrete elements and masonry blockwork before rendering.
- Preparing interior and exterior walls and ceilings prior to applying ALSHOULA PREMIUM CEMENT PLASTER (TDS-MR-001) or conventional cement-sand plasters.
- Providing a rough bonding surface on suitable dense and low-absorption cementitious substrates.

3. Features and Benefits

- Superior Mechanical Key: Creates a coarse, rough surface profile that improves mechanical interlocking with subsequent plaster coats.
- Polymer-Modified Adhesion: Enhances bonding performance on dense and low-porosity concrete substrates.
- Reduced Risk of Debonding: Improves the adhesion of plaster and render layers when applied over properly prepared substrates.
- Consistent Factory Blend: Provides uniform distribution of cement, aggregates, and polymer components.
- Easy Application: Suitable for manual dashing using a plastering scoop or trowel, and mechanical application using a suitable hopper spray gun.
- Interior and Exterior Use: Suitable for internal and external cementitious plastering applications when applied and cured under appropriate site conditions.

AT A GLANCE

PACKAGING
25 kg and 50 kg Multi-Layer Bags

APPLICATION TEMPERATURE
+5°C to +35°C

SHELF LIFE
12 months under recommended storage conditions

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TECHNICAL DATA

4. Technical Specifications

The following values are indicative formulation specifications. Performance values identified as targets remain subject to laboratory testing and verification.

Property	Typical Value
Product Type	Polymer-Modified Cementitious Spatterdash / Key Coat
Appearance	Coarse Grey Dry Powder
Product System	Single-Component
Aggregate Size	Up to 3.0 mm (Graded)
Mixing Liquid	Clean Water
Mixing Water Ratio	20–25% by weight of powder
Water Requirement per 25 kg Bag	5.0–6.25 Litres
Water Requirement per 50 kg Bag	10.0–12.5 Litres
Application Thickness	Approximately 3–5 mm (Rough Dash Coat)
Pot Life at 25°C	Approx. 60–90 minutes
Pull-Off Adhesion Strength (28 Days)	Target ≥ 1.0 N/mm²
Application Temperature	+5°C to +35°C
Waiting Time Before Plastering	Approx. 24–48 hours, subject to curing and site conditions
Packaging	25 kg and 50 kg Multi-Layer Bags
Shelf Life	12 months under recommended storage conditions

Note: Water demand may vary within the specified range depending on the application method, substrate conditions, and required consistency. All performance values are indicative targets and must be verified through appropriate laboratory testing.

5. Coverage and Consumption

Theoretical consumption is approximately 4.0–6.0 kg/m² for a standard rough dash coat, depending on:

- Substrate profile and surface porosity.
- Application thickness and distribution.
- Application method (manual dashing or mechanical spraying).
- Site conditions and material wastage.

Actual consumption should be established through site trials before large-scale application.

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APPLICATION GUIDE

6. Application Procedure

6.1 Surface Preparation

- Ensure that concrete and masonry surfaces are structurally sound, clean, and free from dust, dirt, form-release oils, grease, curing compounds, paint, and loose particles.
- Smooth or contaminated concrete surfaces must be properly cleaned using high-pressure water jetting, wire brushing, or suitable mechanical abrasion.
- Remove all residues that may interfere with adhesion.
- Pre-wet absorbent substrates with clean water before application. The surface should be saturated surface-dry (SSD), meaning damp without standing water.
- Do not apply over frozen, painted, or contaminated surfaces.

6.2 Mixing

- Pour the required quantity of clean water into a clean mixing container.
- Add ALSHOULA SPATTERDASH powder gradually while mixing with a low-speed electric paddle mixer (approximately 400–500 RPM).
- Mix for 3–4 minutes until a thick, uniform, lump-free slurry is achieved.
- Use a water ratio of 20–25% by weight of powder, adjusting within this range according to the required application consistency.
- Allow the mixture to rest for 2–3 minutes, then remix briefly before application.
- Do not add cement, sand, gypsum, or unapproved additives.
- Do not add additional water after the mixture has started to stiffen.

6.3 Application

Manual Application:

- Apply the mixed slurry by firmly dashing it onto the prepared substrate using a plastering scoop or trowel.
- Distribute the material evenly to achieve a uniform, coarse, rough-textured surface.
- Aim for approximately 90–100% surface coverage while maintaining the required rough profile.
- Do not trowel, float, or smooth the applied coat.

Mechanical Spray Application:

- Apply using a suitable mortar hopper spray gun compatible with the aggregate size and slurry consistency.
- Maintain consistent application pressure and distance to achieve an even rough-textured bonding coat.
- Ensure that the equipment does not cause excessive material segregation or blockage.

The rough surface texture must be maintained to provide effective mechanical bonding with subsequent plaster layers.

6.4 Curing and Protection

- Protect freshly applied material from direct sunlight, hot dry winds, and rapid moisture evaporation.
- Cure the applied coat by lightly misting with clean water as required, typically 2–3 times daily for at least 24–48 hours, depending on environmental conditions.
- Avoid excessive water application that may wash out or damage the fresh coating.
- Allow the spatterdash coat to harden firmly before applying subsequent plaster or render layers.
- The waiting period is typically 24–48 hours under normal conditions but may vary with temperature, humidity, and substrate conditions.

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HANDLING & SUPPLY

7. Packaging and Storage

Packaging:
• 25 kg multi-layer bags.
• 50 kg multi-layer bags.

Storage:
• Store in a cool, dry, and covered area.
• Keep bags elevated on wooden pallets and away from direct contact with floors and walls.
• Protect from moisture, rain, and direct sunlight.
• Keep packaging tightly closed and unopened until use.

Shelf Life: 12 months from the manufacturing date when stored in original, unopened packaging under recommended storage conditions.

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SAFETY & SUPPORT

8. Safety Precautions

- Contains Portland cement and becomes alkaline when mixed with water.
- Wear protective gloves, safety goggles, and a suitable dust mask during handling and mixing.
- Avoid inhalation of dust and direct contact with skin and eyes.
- In case of eye contact, rinse immediately with plenty of clean water and seek medical attention.
- Wash contaminated skin thoroughly with clean water.
- Refer to the Safety Data Sheet (SDS) before use.

9. Important Notes

- ALSHOULA SPATTERDASH is intended strictly as a bonding key coat prior to cementitious plastering or rendering. It is not a standalone finishing plaster.
- Do not smooth or float the surface after application. A rough, open-textured profile is essential for mechanical bonding.
- Proper curing is important to minimize rapid moisture loss and prevent surface powdering or weak bonding.
- Do not apply over gypsum substrates, painted surfaces, contaminated surfaces, or standing water.
- At junctions between dissimilar substrates, suitable reinforcement mesh may be required as part of the plastering system.
- The product does not replace structural repairs, waterproofing systems, or movement-joint treatments.
- Conduct site trials to verify water addition, application consistency, coverage, and compatibility with the substrate.
- Application performance depends on substrate preparation, mixing, application technique, curing, and environmental conditions.

10. Manufacturer Information

ALSHOULA ADHESIVES FACTORY
Jeddah, Kingdom of Saudi Arabia
Product: ALSHOULA SPATTERDASH (BONDING SLURRY)
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11. Disclaimer: The technical information provided in this document represents indicative product specifications based on formulation targets and practical application experience. Declared performance values are subject to verification through appropriate laboratory testing. Actual field performance depends on substrate preparation, mixing proportions, application methods, curing practices, and environmental conditions. Users should conduct site trials to confirm product suitability for their specific requirements. The manufacturer reserves the right to update product specifications as part of ongoing product development.