TECHNICAL DATA SHEET (TDS)

STONES & DECOR (GARDEN)

ALSHOULA
PEBBLE BINDER

لاصق الشعلة
Lasiq alshoula

Transparent Binder for Decorative Pebbles & Gravel

Doc Code: TDS-SD-001 | Category: Stones & Decor (Garden)

1. Product Description

ALSHOULA PEBBLE BINDER is a ready-to-use, single-component liquid binder specially developed for stabilizing and bonding decorative pebbles, gravel, and natural stone aggregates.
After application and drying, the product forms a transparent bonding film that helps hold decorative stones together while maintaining their natural appearance and colour.
Depending on the aggregate size, binder consumption, and application method, the finished surface can retain interconnected voids that allow water drainage through the stone layer.
The product helps reduce loose gravel displacement and scattering, making it suitable for decorative landscaping, garden pathways, tree surrounds, and other landscape applications.

2. Areas of Application

- Stabilizing decorative pebbles and river stones in gardens and landscaped areas.
- Creating decorative gravel pathways and pedestrian walkways.
- Securing decorative stones around tree pits, planters, and flower beds.
- Decorative landscape borders and courtyard surfaces.
- Decorative areas surrounding water features, subject to suitable drainage and moisture conditions.
- Residential, commercial, and public landscaping projects.

3. Features and Benefits

- Strong Aggregate Bonding: Helps bind decorative stones together and reduce scattering and displacement.
- Transparent Finish: Forms a clear bonding film that helps preserve the natural appearance and colour of decorative aggregates.
- Permeable Aggregate Structure: Allows drainage through interconnected voids between properly graded and bonded stones.
- Outdoor Landscaping Use: Designed for decorative exterior applications under recommended conditions.
- Reduced Maintenance: Helps reduce the movement and dispersal of loose decorative gravel.
- Versatile Application: Suitable for both pre-mixing with aggregates and surface application over previously laid stones.
- Ready to Use: Supplied ready for application without on-site component mixing.

AT A GLANCE

PACKAGING	APPLICATION TEMPERATURE	SHELF LIFE
1 kg, 5 kg, and 20 kg Containers	+10°C to +35°C	12 months

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TECHNICAL DATA

4. Technical Specifications

Indicative target values subject to product testing and verification.

Property	Typical Value
Product Type	Pebble Binder
Product System	Single-Component
Appearance	Clear to Slightly Milky Liquid
Colour After Drying	Transparent
Specific Gravity at 25°C	To be confirmed
Solid Content by Weight	To be confirmed
Application Method	Pre-Mixing or Surface Application
Touch Dry Time	To be confirmed
Light Foot Traffic	To be confirmed
Full Drying	To be confirmed
Application Temperature	+10°C to +35°C
Packaging	1 kg, 5 kg, and 20 kg Containers
Shelf Life	12 months

Note: Drying time and film formation depend on temperature, relative humidity, ventilation, binder dosage, aggregate size, and application thickness.

5. Coverage and Consumption

Consumption depends on aggregate size, aggregate porosity, binder dosage, application method, and required bonding strength.

Method A – Pre-Mixing with Aggregates
The binder is mixed directly with clean, dry decorative stones before spreading. Consumption is calculated as a percentage of the dry aggregate weight.

Method B – Surface Application
The binder is applied over previously spread decorative stones by pouring or suitable spraying equipment. Consumption depends on the quantity required to penetrate and bind the surface aggregate layer.

Actual consumption rates should be established through practical trials using the intended aggregate type, size, and installation thickness.

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APPLICATION GUIDE

6. Application Procedure

6.1 Substrate and Aggregate Preparation

- Ensure that the base layer is stable, properly prepared, and provides adequate drainage.
- The base may consist of a suitable compacted sub-base, drainage layer, or prepared concrete surface, depending on the project design.
- Decorative pebbles and gravel must be clean, dry, and free from dust, clay, silt, organic matter, and other contaminants.
- Wash dusty aggregates where necessary and allow them to dry completely before application.
- Moisture and contamination can interfere with binder film formation and aggregate adhesion.
- Conduct a small trial to verify compatibility with the selected stone type.

6.2 Application Methods

Method A – Pre-Mixing Application

- Measure the required quantity of clean, dry decorative aggregates.
- Add the predetermined quantity of ALSHOULA PEBBLE BINDER.
- Mix thoroughly in a clean mixing container or suitable mixer until the stones are uniformly coated.
- Avoid excessive mixing that may damage or crush the aggregates.
- Immediately spread the coated stones over the prepared base to the required thickness.
- Distribute and level the material carefully to achieve a uniform surface.
- Allow the applied material to dry without disturbance.

Method B – Pour-Over / Spray Application

- Spread and level the clean, dry decorative stones over the prepared base.
- Stir the binder gently before application if necessary.
- Apply evenly over the aggregate surface using suitable low-pressure spray equipment or a controlled pouring method.
- Ensure adequate penetration into the upper aggregate layer.
- Avoid excessive application that may create a continuous surface film or block drainage voids.
- Allow the first application to dry sufficiently before applying an additional coat, if required.
- Determine the number of coats and total binder consumption through a site trial.

6.3 Drying and Protection

- Protect freshly treated areas from rain, irrigation water, dew, dust, and foot traffic during initial drying.
- Do not apply during rainfall or when rain is expected before the binder has sufficiently dried.
- Ensure adequate air circulation to support proper film formation.
- Avoid premature loading or disturbance of the treated surface.
- Allow sufficient drying before opening the area to pedestrian use.

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7. Drying and Curing

Drying and film formation depend on environmental conditions, aggregate characteristics, binder dosage, and application method.

Stage	Requirement
Initial Drying	Subject to site conditions and application thickness
Recoating	After sufficient drying of the previous application
Light Foot Traffic	After adequate film formation and bonding
Full Performance	After complete drying throughout the bonded aggregate layer

Actual drying and traffic-opening times must be established through application trials under representative site conditions.

8. Packaging and Storage

Packaging: Available in 1 kg, 5 kg, and 20 kg tightly sealed containers.
Storage:
• Store in original, tightly sealed containers.
• Keep in a cool, dry, and shaded storage area.
• Recommended storage temperature: +5°C to +30°C.
• Protect from direct sunlight, excessive heat, and freezing temperatures.
• Prevent contamination during use and reseal containers immediately after opening.
• Do not allow the product to freeze.
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

- Avoid direct contact with eyes and prolonged contact with skin.
- Wear suitable protective gloves and safety goggles during handling and application.
- Ensure adequate ventilation during application.
- Avoid inhalation of spray mist.
- In case of eye contact, rinse immediately with plenty of clean water and seek medical attention if irritation persists.
- Refer to the Safety Data Sheet (SDS) before use.

10. Important Notes

- Designed for decorative aggregate stabilization and landscaping applications.
- Aggregate surfaces must be clean and sufficiently dry before application.
- The finished surface’s drainage performance depends on aggregate grading, binder dosage, installation thickness, and the underlying drainage system.
- Excessive binder application may reduce the open void structure and restrict water drainage.
- The surface is intended primarily for decorative and pedestrian applications.
- Not intended for heavy vehicular traffic unless the complete installation system has been specifically designed and tested for such loading.
- Not suitable for permanent water immersion.
- Do not apply over contaminated, unstable, or poorly drained substrates.
- Always conduct a test patch using the actual project aggregates to verify appearance, bonding, drainage, and application consumption.

11. Manufacturer Information

ALSHOULA ADHESIVES FACTORY
Jeddah, Kingdom of Saudi Arabia
Product: ALSHOULA PEBBLE BINDER
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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 testing. Actual field performance depends on aggregate characteristics, moisture content, substrate preparation, application method, binder consumption, and environmental conditions. Users should conduct site trials to confirm suitability for their specific requirements.