

## Product technical specification

Revision Date: 2022-06-01

TDS Number:

Product Name: Lightweight Gypsum Plaster

Version: V 3.0

### Product Introduction

Lightweight Gypsum Plaster is an innovative material designed for efficient indoor wall and ceiling leveling. Made from selected gypsum, it offers high strength, enhancing wall durability and firmness. Compared to traditional leveling materials, it delivers superior stability, smoother finishes, and significantly reduces construction time.

### Key Advantages

- Eco-friendly.
- Humidity-regulating.
- Sound insulation & thermal insulation.
- High adhesion & crack-resistant.
- Reduces building load.
- Improves energy efficiency.

### Application Method

1.Mixing: Add water first, then gradually mix in the powder to form a uniform paste. Use within 30 minutes after preparation. Do not remix after initial setting.

2.Substrate Preparation: Substrate moisture content  $\leq 20\%$ . Concrete or porous surfaces require a primer (interface agent).

## Technical Specifications

	Test Item	GB standard	Test Data
Paint film condition	Film State	$\geq 1\text{h}$	1h30min
	Initial Setting Time	$\leq 8\text{h}$	2h08min
	Flexural Strength (MPa)	$\geq 1.0$	$\geq 1.5$
	Compressive Strength (MPa)	$\geq 2.5$	$\geq 2.8$
	Tensile Bond Strength (MPa)	$\geq 0.3$	$\geq 0.5$
	Bulk Density (kg/m <sup>3</sup> )	$\leq 1000$	800

Note: Data are typical values; actual results may vary slightly due to environmental conditions. These values are not legally binding.

## Precautions

- 1.Ambient Conditions: Apply at 5–35°C with  $\leq 85\%$  relative humidity.
- 2.Weather Impact: Adjust curing time during continuous rain or low temperatures. Ensure moisture content  $< 20\%$  before applying topcoat (to avoid bubbling/yellowing).
- 3.Windy Conditions: Close doors/windows to prevent rapid water loss and cracking.
- 4.Dry Substrates: Apply primer to prevent plaster cracking.
- 5.Pre-application Test: Conduct a field test under actual conditions before full-scale use. The buyer assumes all responsibility for improper application.

## Packaging & Storage

25  $\pm$  0.5kg/bag。

## Safety Guidelines

The product shall be placed on wooden pallets in a dry area with moisture-proof and waterproof measures.

## Storage (Usage) Precautions

The product has a shelf life of 6 months from the date of manufacture when stored under specified conditions.

## Safety Precautions

Direct contact may cause moderate eye irritation and mild skin irritation, and may lead to skin allergies. Seek immediate medical attention for appropriate treatment.

In case of eye contact, rinse immediately with plenty of water and seek medical assistance if necessary. If swallowed, seek immediate medical care for proper treatment.

## Fire and Explosion Hazards

This product is not classified as a flammable liquid, explosive, oxidizer, corrosive, toxic substance, or radioactive material during storage and transportation. It is not a hazardous material.

### Fire Extinguishing Media:

Use carbon dioxide (CO<sub>2</sub>), foam, or dry chemical powder extinguishers.

If no other extinguishing agents are available, spray with large amounts of water mist.

After extinguishing the fire, clean up any spilled material properly (refer to Spill Handling).

Firefighting Procedure: Standard protective measures apply.

## Spill and Leakage Handling

For minor spills, flush away with water; for major spills, contain and recover the material, then clean the contaminated surface with water or detergent, with all waste disposal strictly complying with local environmental regulations.

**For more information, please refer to our product's Safety Data Sheet (SDS) or contact our Customer Service Center.**

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The specifications and data provided in this document are based on our current technical knowledge and practical experience, and are for reference only. Guaranteed specifications shall be exclusively governed by the Quality Warranty Certificate or supply contract.

The customer is responsible for conducting tests to verify whether the

purchased products are suitable for their intended processes and applications, and whether they achieve the desired objectives.

As further application and processing of our products are beyond our control, our liability is strictly limited to the products delivered to and accepted by the customer. We shall not be liable for any indirect damages arising from the use of our products as raw materials in production processes.

Our Technical Support and Customer Service Center remains available to provide product-related consultation and application technical services. Please feel free to contact us by letter or phone.

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