

**MSGYPSUM**  
گیچ مازندران سمنان

● Building Strength, Shaping the Future



# Polymer Plaster

## Moisture & Sound insulation

Moisture and sound-insulating polymer plaster, eco-friendly and easy to apply, ideal for interior walls and ceilings, providing smooth, durable, and crack-resistant surfaces.

25 years 2025  
CERTIFIED ISO 9001:2015  
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## Product Introduction

Dalia Polymer Gypsum from Mazandaran Semnan is a high-performance, polymer-modified undercoat plaster delivering superior adhesion, moisture and sound insulation. It produces a durable, smooth base ready for paints, wallpaper, PVC panels and decorative surface finishes.

## Attributes

- Excellent moisture resistance for semi-humid interiors.
- High adhesion to concrete, foam, polystyrene, and traditional substrates, even on irregular surfaces.
- Provides effective sound insulation and improved acoustic comfort.
- Produces a smooth, level surface with minimal defects.
- Fast setting time (approx. 15 min) to accelerate project workflow and reduce downtime.
- More economical than cement undercoats, reducing material and labor.
- Polymer additives minimize cracking, shrinkage and peeling.
- Durable, washable, abrasion-resistant finish.
- Supplied in waterproof bags for longer shelf life.
- Usable as undercoat and finishing plaster for decorative works.

## Instructions for Use

- Choose a clean container and pour clean water into it.
- Gradually sprinkle in Dalia polymer gypsum powder while stirring continuously by hand or with an electric mixer until obtaining a smooth, lump-free consistency.
- Typical mixing ratio: about 10 kg of gypsum per square meter for standard thickness (this refers to usage rate).
- Attempt finishing and leveling while mixture is workable, before initial hardening.
- Apply plaster to the desired thickness (usually undercoat thickness, depending on substrate, often 5-15 mm for finishing, more for leveling larger irregularities).
- After setting and as the plaster reaches firm state, finish with trowel or float for smoothing, and prepare for subsequent decorative finishes.

## Notes

Store in dry place. Once bag is opened, use in timely manner to avoid moisture uptake. Ambient temperature during mixing and application should not fall below 5 °C to ensure proper setting and adhesion. (inference from polymer gypsum general guidelines). Avoid adding other materials (normal gypsum, soil, cement) to the mix; mixing foreign substances will degrade adhesion, setting behavior, and may cause defects like cracking, discoloration, delamination. (general polymer gypsum practice)

The stated setting time ( $\approx 15$  min) assumes proper mixing, clean water, correct temperature, and no contamination. Delays or acceleration only with proper additives and testing.

## Applications

- Undercoat plaster for internal walls and ceilings where a strong base is needed before decorative finishes.
- Finishing surface for decorative treatments such as oil or plastic paints, wallpaper, wall panels, and decorative wall coverings.
- Moisture-prone areas (kitchens, bathrooms, semi-humid zones) thanks to its high moisture resistance.
- Acoustic control: use in partition walls or ceilings to reduce noise transmission due to its sound insulation properties.
- Replacement of cement undercoat or traditional plaster under layers especially where speed, cost, and lighter weight are priorities.
- Renovation and repair work: leveling and restoring damaged or irregular plaster or concrete surfaces before applying the final decorative layer.

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## Other products

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## Technical Data

| Title                     | Unit              | Result    |
|---------------------------|-------------------|-----------|
| Amount of powder          | grams             | 1350-1400 |
| Amount of water           | milliliter        | 1000      |
| The ratio of water/powder | percentage        | 73        |
| Initial setting time      | min               | 10 - 15   |
| Final setting time        | min               | 27 - 30   |
| Compressive strength      | N/mm <sup>2</sup> | 7 - 9     |
| Bending strength          | N/mm <sup>2</sup> | 3,5 - 4,5 |
| Purity percentage         | percentage        | 88 - 90   |
| Granulation               | micron (µm)       | 0 - 180   |
| Sieve residue             | percentage        | 3 - 5     |



**MSGYPSUM** plaster should be consumed no later than 6 months after the date of manufacture

# پلیمری گچ Polymer Plaster



Mazandaran Semnan Gypsum Company, using modern technology and premium raw materials, produces a wide range of gypsum products including basecoat, finish, and specialized plasters. With high quality, standard setting times, excellent mechanical strength, and easy application, our products meet the demands of construction projects of all scales.

By combining expertise, innovation, and commitment to quality, we provide a solid foundation for building today and shaping the future of the construction industry.

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