



International for building materials

Gypsum and gypsum derivatives production

EL-Dawlya (PLASTER OF PARIS)

PRODUCT DESCRIPTION

Plaster Of Paris gypsum is a formulated binder plaster (B₂ class) used in buildings to produce decorative gypsum cornices and ceiling decorations.

PRODUCT BENEFIT

- + Excellent for making the gypsum cornices and ceiling plastering.
- + Good balance between mechanical properties and workability.

OTHER MARKETS

Construction Materials, Fibrous and Decorative plaster.

APPLICATIONS

Decoration, plastering, Sculpture, etc.

Technical information

Plaster to water Ratio	
Plaster to Water Ratio (by weight)	1.25:1
Water to plaster ratio (by weight)	80%
Chemical Properties	
Chemical Composition	> 95 % CaSO ₄ .1/2H ₂ O
Setting Properties	
Vicat Ring Fluidity (cm)	25- 35
Initial setting time (minutes)	8-12
Final setting time (minutes)	20- 30
Linear Expansion (%)	0.2
Mechanical Properties	
Flexural Strength (MPa)	3.2
Brinell Hardness (MPa)	18
Dry compressive strength (Mpa)	12-15
Physical Properties	
Color degree	Bright white(>95%)
Shape	Powder
Particle Size (% weight retained)	< 5 % at 150 µm
Apparent Bulk Density (g/cm ³)	950
Reaction to fire	resist (1000C)till 2 hours with out deformation
Acoustic performance	decrease acoustic waves to 50 %
Thermal Conductivity	0.316 W/(m.k)





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INSTRUCTION FOR USE

The recommended plaster to water ratio is between 1.20:1 and 1.30:1, with a mixing time of approx. 2 to 4 minutes, depending on batch size and plaster shop process.
Water and Plaster must be measured carefully to ensure constant performances.
The precise consistency to use will need to be adjusted to suit the individual application.
Changes to plaster to water ratio will influence product performance particularly setting time, strength and permeability.

PACKAGING

	Packing available	Shelf life (month)
Bag	25 kg – 40 kg	6
Bulk pallet	1.5 – 2.0 T	6

When stored under dry conditions and in its original packaging, the product will have a specified shelf life that commences from the date of manufacture that is displayed on each pallet.
Shelf life depends on the packaging type and packing place conditions.

STORAGE

Plaster based products are not recommended for conditions where they are likely to be located externally or in any way subjected to weathering or excessive dampness.
Absorption of moisture can result in changes to physical properties, including a reduction in the set strength of plasters and also a lengthening of setting time.
Gypsum minerals can be affected by absorption of moisture and may change physical properties.
To help protect the product during use, open or part used bags should be carefully folded and closed. Each bag stocks should be rotated so that the oldest material is used first.

ENVIRONMENT, HEALTH AND SAFETY

Material Safety Data Sheets of International For Building Materials Company plasters and gypsum minerals are available for all products.

Standard:

According to European standard EN13279 –Egyptian standard 188/2013

For any information, please visit our website

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