



SHAHIN GROUP FOR INDUSTRY & MINING



Leaders Of Gypsum Industry



www.elshahin.com





About Us

We are **"Shahin Group for Industry & Mining"** our area of expertise lies specifically in the industrial sector mainly in manufacturing a diverse range of Gypsum products which are characterized by competence, quality and forward-looking technologies. Established in 2003 as Shareholding Company, our industrial facilities is based in the 9th Industrial Zone, Abu Zeneima in South Sinai Peninsula, Egypt where our large open pit quarries are located and sits on one of the largest deposits of the purest gypsum raw material.

"Shahin Group for Industry & Mining" is known as the unique factory manufacturing the Alpha Gypsum in the entire Middle East & Africa. Our achievements in this sector had been put into action by our highly experienced team based on our extensive and proven expert know-how which allows us to guarantee the best quality to every one of our customers according to their type needs. Our products have acquired different certificates from local and international laboratories and have been certified by the EOS, LMS, EGAC and SGS (ISO 9001:2015) .



Parameter	Unit	Result	Reference
Moisture	%	10.4	10.4
CaSO ₂	%	89.6	89.6
CaSO ₃	%	0.0	0.0
CaSO ₄	%	0.0	0.0
CaSO ₅	%	0.0	0.0
CaSO ₆	%	0.0	0.0
CaSO ₇	%	0.0	0.0
CaSO ₈	%	0.0	0.0
CaSO ₉	%	0.0	0.0
CaSO ₁₀	%	0.0	0.0
CaSO ₁₁	%	0.0	0.0
CaSO ₁₂	%	0.0	0.0
CaSO ₁₃	%	0.0	0.0
CaSO ₁₄	%	0.0	0.0
CaSO ₁₅	%	0.0	0.0
CaSO ₁₆	%	0.0	0.0
CaSO ₁₇	%	0.0	0.0
CaSO ₁₈	%	0.0	0.0
CaSO ₁₉	%	0.0	0.0
CaSO ₂₀	%	0.0	0.0



Mission

- Our pledge is to establish lasting relationships with our customers by exceeding their expectations and gaining their trust through exceptional performance by every member of our team.
- To perform for our customers the highest level of quality product and services at fair and market competitive prices. And ensure the longevity of our company through repeat and referral business achieved by customer satisfaction in all areas including timeliness, attention to detail and service-minded attitudes
- To be the preeminent provider of superior quality by consistently improving the production and services process; to add value for clients through innovation, foresight, integrity, and aggressive performance.

Vision

We attribute our success to our long standing dedication to the Business Company's continued growth is the testimony of our capability and commitment to adapt to the needs of a changing world. Our strong commitment towards excellence and total customer satisfaction has enable us to achieve an unsurpassable position in the market.

Values

- » We care about our customers.
- » We strive to be the best in our industry.
- » We strive to always act with integrity and fairness
- » We do our absolute best to honor our commitments.

Services

We supply locally and we export to worldwide clients. We are dealing with highly reliable trust worthy with all types of customers. Whether you are a supplier, retailer or end customer an after sales service & customer satisfaction guaranteed until our products reach buyers hands.

Our main markets



Morocco



Nigeria



Kenya



Sudan



Gabon



Senegal



Iraq



Saudi Arabia



India



Rwanda



Ivory Coast



Tanzania



Ghana



Uganda



Djibouti



Bangladesh



Yemen



South Korea



Congo



Cameroon



Madagascar



Our dedication with established expertise in products analysis & high quality has provided us an edge above others.

Our experience over the years is our backbone to provide assured quality by “**Shahin Group for Industry & Mining**”. The accumulated knowledge from the past has been proved as reason of trust in us by our valued clients. Quality at “**Shahin Group for Industry & Mining**” is precisely taken care from beginning of the process and never compromised.

In our philosophy, quality is not only the durability and defect free nature of product but its utility and applicability to satisfy the sole purpose for which it was bought.

The quality assurance system is guided by principles that support our unique working culture which incorporates respect, self-management and creativity.

Chemical and physical analysis are regularly tested by internal and external labs according to the European standard EN as well the American Standard ASTM. Our product is monitored by our Quality Control Management starting from raw material and during process up to delivery of final product .

Products

Gypsum were found from 7000 B.C. During the time of the Pharaohs, it was used as mortar in the construction of the Cheops Pyramid (3000 B.C.). In the Middle Ages and the Renaissance, decorations and artistic creations were made of plaster. Since then, the range of construction-related uses have continued to multiply.

Usage of Gypsum

Gypsum is used in several fields and is considered as an essential factor in the primary steps for different industries, like:

1-Construction Field:

It is used as an attached material in construction. It will be also added to wooden supports as it form effective barrier against fire. In addition it is used in protecting structural frames so as not to lose its durability due to high temperatures. It will be also added to cement at 6.3% for inhibiting its flash setting.

2-Decoration and topping works:

Painting and plastering ceilings and interior walls: as it has the advantageous of long life time in paints, it is used also in fabricating plaster boards used in plastering. Gypsum is used as wall adhesive; and it is used also in fabricating adhesive walls- suspended ceilings- walls liners- partitions, separators as well as thermal walls.

3-Sanitary Ware Fabrication:

Gypsum alpha is used in fabricating master molds and sanitary ware gypsum is used in fabricating sanitary ware molds.

4-Medical Fields:

Calcined gypsum (P.O.P) is used in making splints fractures. While gypsum alpha is used in denture molds.

5-Agricultures Fields:

Raw gypsum is used in improving soil properties as it compensates decrease in calcium for the soil. It is used also in treatment of harmful salts and alkaline presents in the soil.

6-Another fields and usage:

Glass industry to facilitate gas expulsion.
Paints and glue industry.
Paper filler industry.
Lime industry.
Sulfuric acid industry.
Composing clay used in oil drilling process.
Fabricating of sound insulating walls.
Manufacturing of figuration gypsum needed for statues, ceramics and decoration.
Manufacturing thermal gypsum which is used for casting chandelier's frames.
It is used in producing ammonia sulfate which is used as natural fertilizer when containing 15:20% sulfur.

We proudly offers an extensive range of Gypsum products

GYPSUM STUCCO Plaster Of Paris "P O P "

Usage

Surface painting, decoration and topping works.

Adhesive Gypsum.

Gypsum Lines (Gypsum used in corners)

Plaster Boards.

Gypsum for ceilings

Suspended Ceilings

Specs

Standard Water	60 %.
Set Time	Initial 7 – 9 minutes. Final 13 – 15 minutes.
Bending Strength	3.4 MPA.
Compressive Strength	14.6 MPA.
Fineness	< 1 % roughness using 105 Micron sieve.
Whiteness	> 95 %.
Gross Weight per packing	30.3KG – 40KG



GYPSUM RAW MATERIAL



Usage

It is the main component in all gypsum industries.

It can be added to cement to decrease its long setting time

It can be used in Agriculture fields to improve soil properties

It can be used in Lime Industry

Specs

Free Water	0.1	%
Combined Water	20.7	%
Carbon Dioxide	0.55	%
Silicon Dioxide + R2O3	3	%
Ferric Oxide	0.14	%
Aluminum Oxide	1.56	%
Calcium Oxide	30.9	%
Magnesium Oxide	0.19	%
Sulfur Trioxide	45.4	%
Sodium Chloride	0.12	%
Raw Gypsum (CaSO4.2H2O)	98.7	%
12 . Size	15 – 20	cm

What is Alpha Gypsum?

Alpha gypsum, also called cemented gypsum due to closed strength results with cement Difference is only in setting time which is benefit for alpha gypsum
Alpha gypsum has a low porosity and, a low water requirement. It is primarily used in industrial formulations due to its very high mechanical strength.

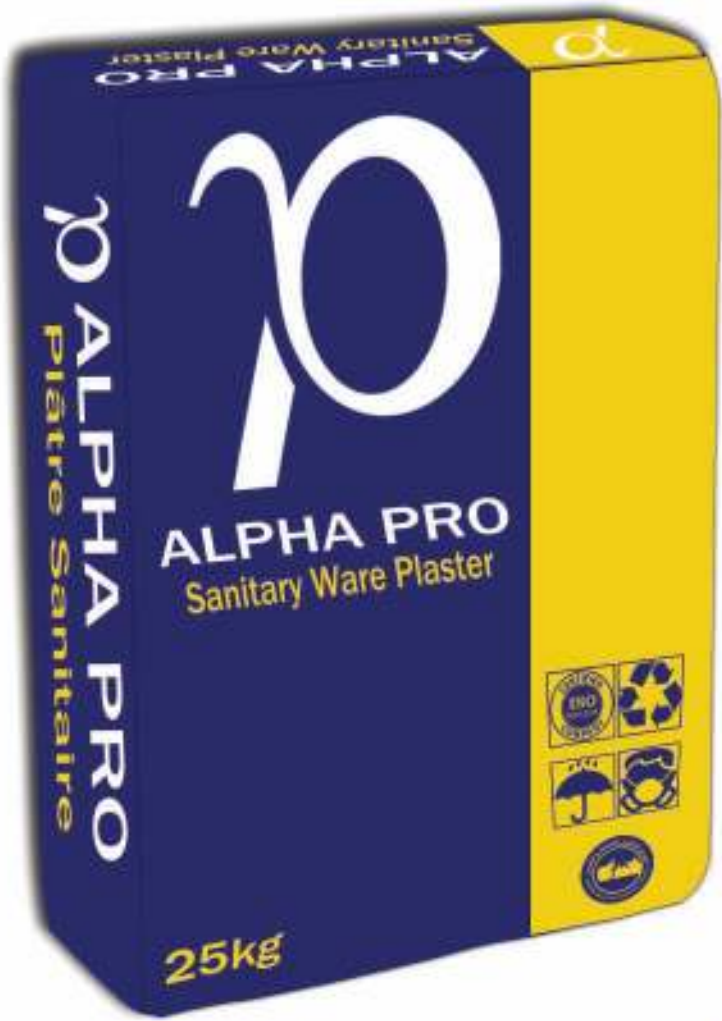
ALPHA PRO SANITARY WARE PLASTER

Usage

Used in casting Molds in Sanitary Ware factories

Specs

Standard Water	W/P Ratio 2:3
Set Time	Initial 19 – 26 minutes Final 32 – 38 minutes
Bending Strength	4.3 MPA.
Compressive Strength	25.6 MPA.
Fineness	< 1 % roughness using 63 Micron sieve.
Whiteness	> 95 %



ALPHA PRO PREMIUM ALPHA PLASTER

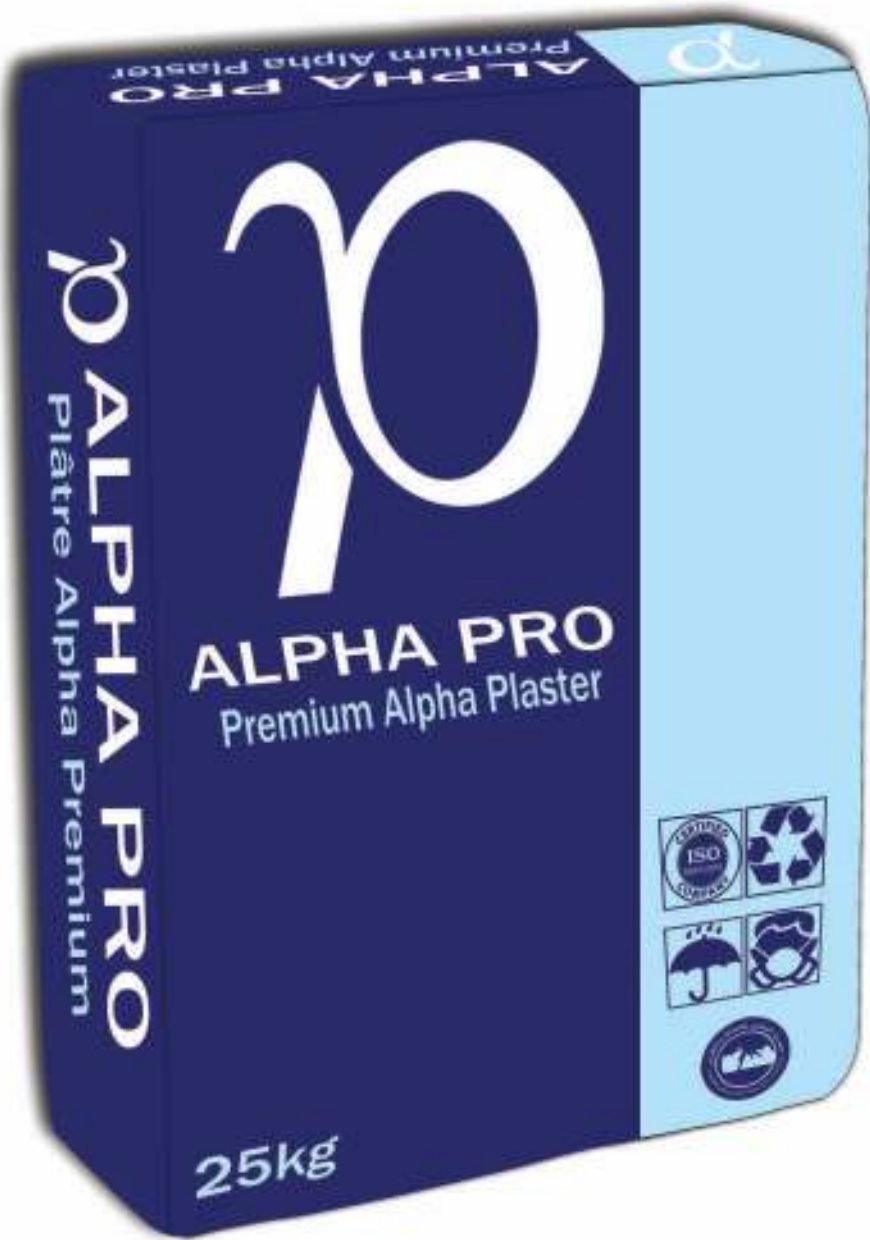
Type 3 Hard :

Usage

Used in Building, Decoration and in Dentistry Sectors

Specs

Standard Water	38 - 42 %
Setting time	Initial set time 7 – 9 minutes Final set time 15 – 17 minutes
Bending Strength	6.6 MPA
Compressive Strength	34.44 MPA
Fineness	< 1 % (Roughness using 63 Micron Sieves)
Whiteness	> 95%
Weight of filled Bag	25 Kg



Type 4 XHard :

Usage

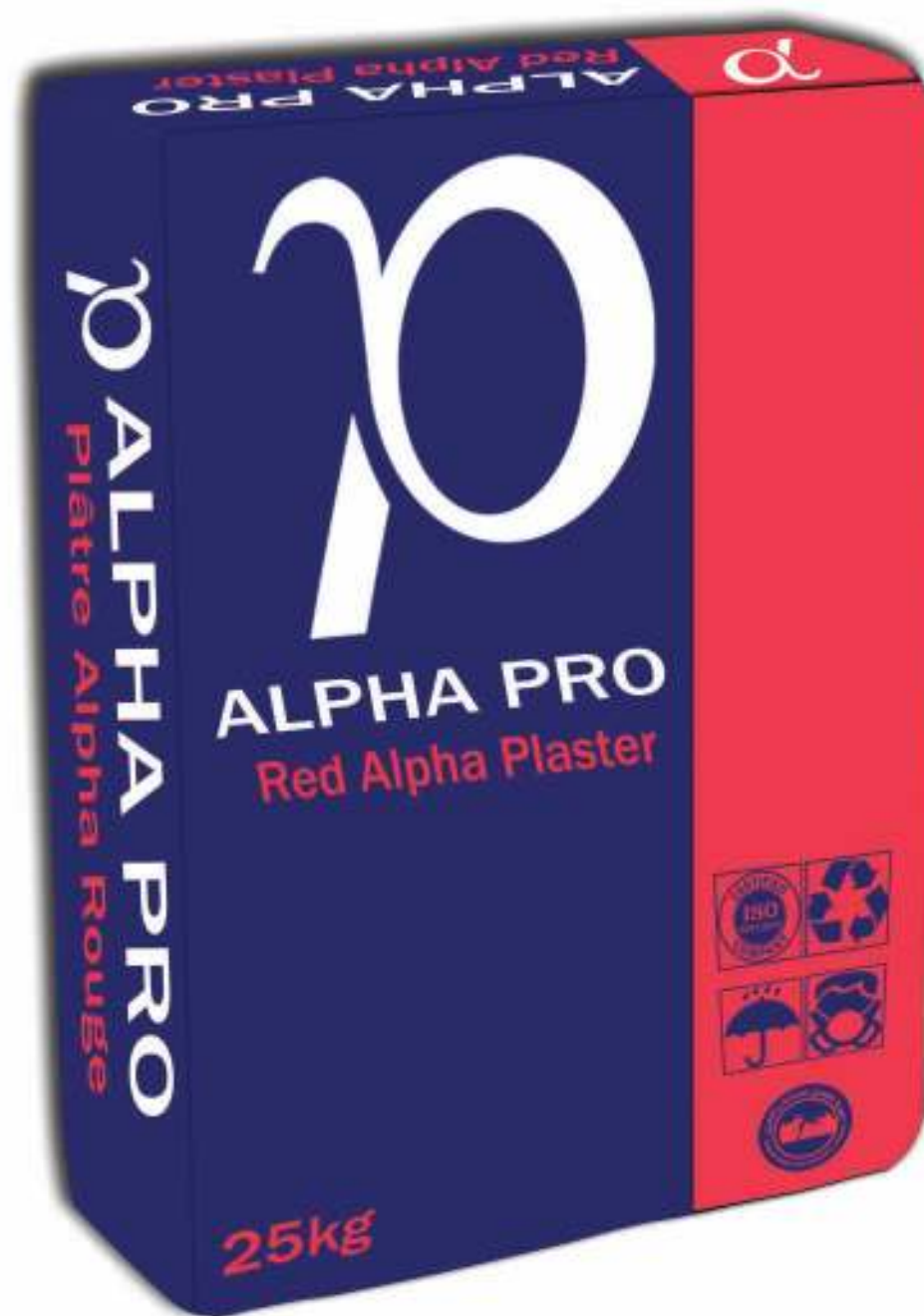
Used essentially in Dentistry Sectors

Specs

Standard Water	28 - 35 %
Setting time	Initial set time : 12 – 15 minutes Final set time : 18 – 20 minutes
Bending Strength	8.5 MPA
Compressive Strength	54.2 MPA
Fineness	< 1 % (Roughness using 63 Micron Sieves)
Whiteness	> 95%
Weight of filled Bag	25 Kg

ALPHA PRO RED ALPHA PLASTER

Sanitary Ware Mother Mold Gypsum



Usage

Used in casting Mother Molds in Sanitary Ware factories

Specs

Standard Water	35 – 40 %.
Set Time	Initial 10 – 14 minutes Final 22 – 25 minutes.
Bending	7.8 MPA.
Compressive Strength	44.8 MPA.
Fineness	< 1 % roughness using 63 Micron sieve
Color	Red
Weight of filled Bag	25 Kg

PERFIX

Finishing and Decoration

PERFIX plaster is for immediate manual application in a shape of ultra-soft and white powder, when it's added to water in specific quantities, it creates soft homogeneous mortar for walls and ceilings. It is ready for direct use on all cement, gypsum, and finishing surfaces, as well as previous painted surfaces before repainting. It's also used on fair face plastering due to saving in the amount of used powder and water.

PERFIX plaster is characterized by its high stretching rates on surfaces even on the first layer, repairing all cracks, bunches and jags on walls, also the defects of rough surfaces. It's also used above the old not straight plastering. Its thickness can reach up to 5 mm according to the required work which lead to more saving in the product and water consumption.

PERFIX plaster creates a fine, smooth, shining, super white, rigid, and strongly adhesion layer on wall after dryness. It also doesn't get affected by frictions or leave dust on hands during and after use.

PERFIX plaster is characterized by its ability to stretch more than 5 layers above each other without any change in its fineness or whiteness degree.

Specs

Standard water	70% - 80%.
Set time	120 minutes – 180 minutes.
Bending strength	0.2-5.8 N /mm ² .
Compressive strength	2.8-9.3 N/mm ² .
Fineness	0% (remaining on a sieve 45 micron).
Decomposition temperature	1450 c.



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