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PRODUCT CATALOG

“Consistency in Every Structure.”

Reliable performance, measurable quality – Sunlite is engineered to deliver the same strength and stability in every layer.

www.sunliteiq.com

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CONTACT

Welcome to Our Product Catalog

Consistency. Durability. Technical Reliability.

Every Sunlite product is engineered to perform, layer after layer — ensuring dimensional stability, superior bonding, and uniform results across every application. From formulation to final finish, precision and reliability define the core of our technology.

About Us

Sunlite is an international manufacturing brand established to provide innovative, reliable, and long-lasting solutions for the construction industry. Through its technical partnership with Powerfulfix (Ukraine), all product formulations are designed according to European standards and manufactured in our modern facilities in Iraq under strict quality control processes.

The Sunlite brand aims to offer not just products, but a complete system of construction chemical solutions for professional applicators, contractors, and construction companies.

Innovation with a foundation of engineering discipline.



Our Mission

To make quality accessible in the construction industry, to develop products that inspire trust in every user, and to maintain an environmentally conscious approach throughout all production processes.

Sunlite designs engineering-based solutions that make every project more efficient, more durable, and more aesthetically refined.

Our vision

In the short term, to strengthen our position as a leading brand in Iraq and the regional market; in the medium term, to expand our network of technical distributors across Turkey and the Middle East; and in the long term, to establish Sunlite as a global construction chemicals brand that fully meets European quality standards.

About Our Products

Driven by Ukrainian Innovation, Built for Global Standards.

Sunlite specializes in the development and production of gypsum-based materials, construction chemicals, and concrete admixtures, offering a complete range of professional solutions for modern construction.

Through its strategic partnership with Powerfix (Ukraine) — a licensed manufacturer operating a chemical and construction materials plant in Ukraine and an advanced R&D center in Germany — Sunlite integrates European chemical engineering standards into every formulation.

Designed to frame life's best moments

- Precision in formulation design, with controlled setting times and enhanced bonding strength.
- Automated production systems in Iraq, providing consistent density, purity, and performance.
- Engineering-backed quality control, where every batch is tested for mechanical strength, adhesion, and long-term stability.

Sunlite's collaboration with Powerfix allows continuous innovation and adaptation to regional climate conditions, ensuring that every product—from gypsum plasters to high-performance admixtures—delivers measurable reliability and durability in the field.



About Our Production

Automation in Every Step, Perfection in Every Product.

Sunlite's production facilities operate with fully automated dry and liquid production systems, designed for precision, consistency, and efficiency. The dry-mix lines are equipped with high-capacity mixers, weighing units, and automatic filling systems that ensure uniform formulation and controlled batching for all gypsum and mortar-based products.

The liquid chemical production area includes stainless steel mixing reactors with automated agitation, dosing, and temperature control — enabling the production of advanced admixtures and polymer-based construction chemicals with laboratory-level accuracy.

Engineered Production, Consistent Quality.

Every production stage — from raw material feeding to final packaging — is digitally monitored through an integrated control system. This ensures stable product quality, minimal material loss, and full traceability of each batch. Through this advanced infrastructure, Sunlite combines engineering precision and industrial automation to deliver reliable, high-performance materials for global construction standards.



About Our Lab

Tested by Science, Proven in the Field.

At Sunlite, every product is developed, tested, and verified with uncompromising attention to detail. Our fully equipped laboratory serves as the foundation of our quality assurance process — equipped with precision instruments for density measurement, adhesion testing, setting time analysis, and chemical stability evaluation.

Each batch is carefully examined to ensure full compliance with European standards (EN, ISO) and internal performance benchmarks. This rigorous approach allows Sunlite to maintain consistent quality, technical reliability, and lasting durability across all product lines — from gypsum plasters to advanced construction chemicals.

Precision in Every Test, Confidence in Every Result.

- In cooperation with Powerfulfix (Ukraine), Sunlite maintains a continuous R&D exchange between its Iraq production facility and European engineering centers. This collaboration enables the development of formulations that perform consistently under diverse climate and material conditions.

Every innovation starts in the lab and ends on site — ensuring that what is designed in controlled conditions performs flawlessly in real-world construction environments.



ST-100



Lightweight Strength. Lasting Protection.

Perlite Plaster ST100 is a high-performance, ready-mix gypsum plaster formulated with refined gypsum stone and expanded perlite aggregates. Its advanced composition provides excellent thermal insulation, sound absorption, and surface workability, offering superior coverage and smoothness on interior walls and ceilings.

The expanded perlite filler enhances energy efficiency and acoustic comfort while ensuring a lightweight, durable finish that adheres perfectly to concrete, brick, and block surfaces. Its balanced formulation allows manual use, reducing application time and material consumption

Physical Appearance: White powder

Water/Plaster Ratio: 6 L water / 10 kg plaster

Initial Setting Time (td): min. 20 – max. 90 min

Final Setting Time (t3): 90 – 180 min

Bulk Density: 700–800 g/L

Spread Diameter: 160–170 mm

pH (for 1 L measured container): 12–13

Flexural Strength (min): 1.4 N/mm²

Compressive Strength (min): 31 N/mm²

Adhesion Strength (min): 3 N/mm²

Reaction to Fire: A1

Consumption Rate: 8.5–9.5 kg/m² (at 10 mm thickness)

Application Thickness: min. 10 mm – max. 15 mm

Application Area

Used as an interior plaster on surfaces such as brick, pumice block, aerated concrete, and exposed concrete, as well as on plasterboard. It is applied on interior walls and ceilings of buildings such as residences, offices, hotels, schools, and hospitals.

Suitable for use in indoor areas requiring thermal and sound insulation, and can be applied by machine or by hand.

Features

Its lightweight structure does not place a load on the surface.

Excellent breathability prevents moisture and damp formation.

Provides high thermal and sound insulation.

Easy to apply and highly workable.

Ensures a smooth surface with a single coat.

Does not crack or flake.

Gypsum Plaster Machine

ST-101



Engineered for Speed, Perfected for Precision.

Gypsum Plaster Machine ST-101 is a high-efficiency ready-mix gypsum plaster designed for mechanical application on interior walls and ceilings. Produced from refined gypsum and performance-enhancing additives, it ensures smooth pumping, uniform spray consistency, and superior surface adhesion.

Its controlled setting time allows extended application flexibility, while the hardened layer provides crack resistance, durability, and vapor permeability. ST-101 offering a cleaner, lighter, and more economical solution for modern construction projects — reflecting Sunlite's engineering precision and commitment to consistent quality.

Physical Appearance: White powder

Water/Plaster Ratio: 5 L water / 10 kg plaster

Initial Setting Time (td): min. 50 – max. 120 min

Final Setting Time (t3): 210 – 250 min

Bulk Density: 800–900 g/L

Spread Diameter: 170–180 mm

pH (for 1 L measured container): 12–13

Flexural Strength (min): 1.4 N/mm²

Compressive Strength (min): 31 N/mm²

Adhesion Strength (min): 3 N/mm²

Reaction to Fire: A1

Consumption Rate: 9.5–10.5 kg/m² (at 10 mm thickness)

Application Thickness: min. 10 mm – max. 15 mm

Application Area

As a machine-applied plaster system for interior walls and ceilings on exposed concrete, brick, aerated concrete, and smooth plasterboard surfaces. In various types of buildings such as residences, apartments, offices, hotels, and hospitals. Particularly suitable for construction sites where high-speed application is required. Used as the main plaster layer indoors before paint or coating applications.

Features

Formula suitable for machine application — provides high fluidity and uniform distribution. Expanded perlite adds lightness as well as thermal and sound insulation properties.

Enables a smooth surface — ideal before painting or decorative coating.

High adhesion and crack resistance.

Wide range of application thickness; can be applied in two layers if needed.

Satin Finishing Plaster

ST-102



Perfect Smoothness, Lasting Elegance.

Satin Finishing Plaster ST-102 is a high-quality gypsum-based finishing plaster formulated for smooth, uniform interior surfaces. Made from refined gypsum and fine mineral fillers, it offers excellent whiteness, strong adhesion, and superior workability, ensuring a perfect base for paint and decorative coatings.

Its fine texture and controlled setting time allow easy application, high coverage, and a silky, durable finish resistant to cracking and surface imperfections. Designed for both manual and mechanical use, Sunlite ST-102 represents precision, quality, and long-lasting elegance in every layer.

Application Area

On interior walls and ceilings, As a final coat over gypsum or machine-applied plasters,

For surface smoothing before painting over cement-based plasters, In decorative topcoat applications of offices, residences, hotels, schools, and hospitals, In high-quality interiors requiring fine surface correction.

Features

High whiteness: Creates an ideal surface before painting and reduces paint consumption. **Fine-grained texture:** Provides a silky-smooth finish after application.

Easy to apply: Spreads easily with a trowel and adheres perfectly to the surface. **Long working time:** Maintains consistency without early setting. **Non-dusting:** Forms a hard and durable surface layer. **No cracking or blistering:** Dries evenly thanks to controlled setting time.

Physical Appearance: White powder

Water/Plaster Ratio: 7 L water / 10 kg plaster

Initial Setting Time (td): min. 60 min

Final Setting Time (t3): 150–300 min

Bulk Density: 650–700 g/L

Spread Diameter: 150–165 mm

pH (for 1 L measured container): 12–13

Flexural Strength (min): 1.4 N/mm²

Compressive Strength (min): 31 N/mm²

Adhesion Strength (min): 3 N/mm²

Reaction to Fire: A1

Consumption Rate: 1 kg/m² (at 1 mm thickness)

Application Thickness: 1 mm

Joint Filler Plaster

ST-103



Seamless Strength, Perfect Finish.

Joint Filler Plaster ST-103 is a gypsum-based compound specially formulated for filling and reinforcing joints between plasterboards. It provides strong adhesion, flexibility, and a smooth finish, ensuring a durable and crack-free connection between panels.

Easy to mix and apply, ST-103 works perfectly with joint tape to enhance stability and prevent edge cracking. Suitable for manual application, it delivers a uniform, paint-ready surface. Sunlite ST-103 embodies precision and reliability — the ideal choice for seamless wall finishing.

Application Area

For filling joints between gypsum boards (plasterboards),
For screw heads and surface repairs,
For surface leveling before painting or applying satin plaster,
Used on interior walls and ceilings.

Features

High adhesion strength – provides excellent bonding to gypsum boards.
Resistant to cracking with low shrinkage.
Easy to apply and spreads uniformly.
Fine-grained structure ensures a smooth surface.
Fast drying and easy sanding.
Does not dust or blister.
When used with joint tape, it maximizes joint strength.

Physical Appearance: White powder

Water/Plaster Ratio: 6 L water / 10 kg plaster

Initial Setting Time (td): min. 20 – max. 60 min

Final Setting Time (t3): 60–80 min

Bulk Density: 650–700 g/L

Spread Diameter: 145–165 mm

pH (for 1 L measured container): 6–7

Compressive Strength (min): 2.0 N/mm²

Adhesion Strength (min): 3 N/mm²

Reaction to Fire: A1

Consumption Rate: Ceiling = 0.2 kg/m²,

Partition wall = 0.6 kg/m²

Application Thickness: 1 mm

ST-200



Smart Insulation, Lasting Efficiency.

Insulation Plaster ST-200 is a high-performance, cement-based thermal plaster designed to provide effective heat and sound insulation on both interior and exterior surfaces. Formulated with expanded glass microspheres and polymer additives, it ensures excellent adhesion, flexibility, and vapor permeability, reducing heat loss and improving energy efficiency in buildings.

Its lightweight yet durable structure makes it suitable for concrete, brick, and block substrates, offering a breathable protective layer that resists cracking and moisture penetration. Easy to apply manually or by machine, Sunlite ST-200 combines insulation performance with superior surface finish — a modern solution for sustainable, energy-efficient construction.

Appearance: White

Dry Density: $500 \pm 50 \text{ kg/m}^3$

Thermal Conductivity: $\lambda < 0.1 \text{ W/mK}$

Compressive Strength: CSII, $> 1.50 \text{ N/mm}^2$ (2.85)

Bond Strength: $> 0.30 \text{ N/mm}^2$

Water Absorption: $W_1 < 0.40 \text{ kg/m}^2 \cdot \text{min}$

Vapor Diffusion Resistance: $< 15 \mu$ (5–6)

Fire Resistance: Class A1 – Non-combustible

Atmospheric Resistance: Durable

Ready for Painting: 48 hours under suitable conditions

Application Method: Manual or machine

Consumption (1 cm Thickness): $4.5\text{--}5.0 \text{ kg/m}^2$

Consumption (2 cm Thickness): $2.00\text{--}2.20 \text{ kg/m}^2$

Application Area

Interior and exterior thermal insulation applications, Mineral surfaces such as concrete, reinforced concrete, brick, pumice block, and aerated concrete, Panel-coated surfaces such as plasterboard, cement board, and OSB, Restoration works for thermal insulation of old or historical buildings, Insulation of thermal bridges and high energy loss surfaces, As a thermal insulation layer before paint, plaster, or coating.

Features

Thermal insulation: Expanded glass microspheres provide high heat insulation performance. **Sound insulation:** Porous microstructure reduces sound transmission. **High adhesion:** Polymer additives ensure strong bonding to all mineral surfaces. **Crack resistance:** Elastic binder system withstands thermal expansion. **Breathable:** Maintains moisture balance and prevents damp formation inside the structure. **Lightweight:** Lower density than traditional plasters, adding minimal load to the surface. **Easy to apply:** Can be smoothly applied by machine or trowel.

Plasticizer

ST-300



Controlled Flow, Consistent Quality.

Plasticizer ST-300 is a high-range water-reducing admixture that improves flowability, strength, and durability in concrete. Its advanced polymer formula disperses cement particles efficiently, creating dense and uniform mixtures with reduced water demand.

Ideal for ready-mix and precast applications, ST-300 enhances compaction, minimizes segregation, and ensures long-lasting structural performance. Sunlite ST-300 combines fluidity with strength — delivering consistent results in every pour.

Application Area

- Ready-mix and precast concrete production
- High-performance and self-compacting concrete
- Reinforced concrete elements requiring high strength
- Pumped concrete applications
- Floors, slabs, foundations, and prefabricated structures

Features

- Increases workability without additional water
- Enhances compressive and flexural strength
- Reduces permeability and shrinkage
- Provides uniform and dense concrete structure
- Compatible with most cement types
- Maintains performance under variable temperature and site conditions

Viscosity Modifier

ST-301



Controlled Flow, Consistent Quality.

Viscosity Modifier ST-301 is a high-efficiency admixture formulated to enhance the cohesion, stability, and workability of concrete and mortar mixes. By controlling water distribution and particle movement, it prevents segregation, bleeding, and surface defects, ensuring a consistent mix even under challenging site conditions.

Application Area

- Self-compacting concrete (SCC)
- Ready-mix and pumped concrete
- Mortars and screeds requiring improved cohesion
- Lightweight aggregate concrete
- Projects demanding superior surface finish

Features

- Improves viscosity and mix stability
- Prevents segregation and water bleeding
- Enhances surface uniformity and finish quality
- Increases pumpability in high-fluidity concretes
- Compatible with plasticizers and superplasticizers
- Ensures consistent performance across different mix designs

Set Retarder

ST-302



More Time, Same Strength.

Set Retarder ST-302 is a chemical admixture formulated to control and extend the setting time of cement-based mixtures such as concrete and mortar. Its precise composition slows down the hydration process, allowing longer workability and placement time without affecting final strength or durability.

Application Area

- Ready-mix concrete requiring long transport or placement time
- Hot-weather concreting
- Large surface pours and continuous casting operations
- Precast concrete with controlled setting requirements
- Repair mortars and grouts

Features

- Extends setting time under high temperatures
- Maintains workability and consistency over time
- Does not reduce ultimate strength
- Improves surface finishing quality
- Compatible with most types of cement and admixtures
- Ideal for long-distance concrete transportation

Set Accelerator

ST-303



Faster Setting, Stronger Start.

Set Accelerator ST-303 is a high-performance admixture designed to shorten the setting and hardening time of cement-based systems such as concrete and mortar. Its advanced formulation promotes rapid hydration, allowing early strength development and faster formwork removal, especially in cold weather or time-sensitive applications.

Application Area

- Cold-weather concreting
- Precast and repair mortars
- Shotcrete and sprayed concrete
- Fast-track construction projects
- Emergency repairs and anchoring applications

Features

- Accelerates setting and early strength gain
- Reduces construction and curing time
- Enables quicker demolding and surface finishing
- Improves performance in low-temperature conditions
- Compatible with most cement types and admixtures
- Enhances productivity in time-critical applications

Air Entraining Agent

ST-304



Light Mix, Lasting Strength.

Air Entraining Agent ST-304 is a specially formulated admixture designed to introduce stable, microscopic air bubbles into concrete, enhancing its workability, freeze-thaw resistance, and long-term durability. The controlled air content improves cohesiveness and reduces bleeding, resulting in lighter, more resilient concrete with smoother finishing characteristics.

Application Area

- Ready-mix and precast concrete
- Pavements, slabs, and exterior structural elements
- Cold-climate or freeze-thaw exposure zones
- Lightweight and pumpable concrete applications
- Mortars requiring improved plasticity and finish

Features

- Increases frost and de-icing salt resistance
- Enhances workability and surface finish
- Reduces bleeding and segregation
- Improves durability and cohesion
- Provides uniform air distribution throughout the mix
- Compatible with most plasticizers and retarders

Concrete Antifreeze

ST-305



Cold-Resistant Performance, Year-Round Strength.

Concrete Antifreeze ST-305 is a chloride-free admixture designed to enable safe and efficient concrete casting at low temperatures. It prevents freezing of the mix water and accelerates the hydration process, ensuring normal setting and strength development even in cold weather conditions.

Application Area

- Cold-weather concreting below +5 °C
- Foundations, columns, slabs, and road concretes
- Precast and on-site production in winter conditions
- Concrete repairs and cold-storage facility floors

Features

- Prevents freezing and ensures normal setting in cold climates
- Promotes early strength gain at low temperatures
- Chloride-free — safe for reinforced concrete
- Improves workability and curing in adverse weather
- Compatible with most plasticizers and accelerators

Get in Touch with Sunlite

Consistency. Durability. Technical Reliability.

For sales inquiries, technical assistance, or collaboration opportunities, please contact us through the channels below.

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