PRODUCT BROCHURE
BUILDING MATERIALS DIVISION

新义合成
XYZCHEM

Product Manual

Concrete and Mortar Admixtures / Building Materials Division



Nanjing Xinyi Synthetic Technology Co., Ltd.

High-quality Additives R&D, Production, and Sales Supplier / Solution Service Provider

Company Presentation

Nanjing Xinyi Synthetic Technology Co., Ltd. is a technology-oriented group company integrating professional R&D, production, and sales of new materials, with three subsidiaries under its umbrella. Its headquarters is located in Nanjing, Jiangsu, and it has R&D centers in Nanjing and Zhenjiang. The production sites are in Zhenjiang, Jiangsu; Liyang, Jiangsu; and Dongying, Shandong.

Leveraging resources from Nanjing Forestry University and Anhui University of Technology, the company has established joint laboratories and holds a leading position in lithium battery anode material science, specialty bonding materials, new construction materials, and papermaking applied science.

The head office consists of three divisions: Civil Products Division, Industrial Products Division, and Medical Excipients Division.

The industrial products developed and manufactured by Nanjing Xinyi Synthetic Technology Co., Ltd. include:

- New energy battery anode binders;
- Anti-fouling coatings for nano solar panels;
- Concrete and mortar additives;
- Coating additives and specialty adhesives.

Our company upholds the principles of being green, environmentally friendly, and healthy. We are committed to the belief that safety comes first for the people, quality is the foundation of safety, and sincerity is the root of quality. Through the development of safe and eco-friendly products, we strive to create a better life for humanity.





01 - early strength admixture

新义合成 XYZCHEM

Product Name	Technical Data	Specifications	Product Introduction	Applications
Crystal Seed Early Strength Agent Xystone S7045	Appearance: Gray powder Moisture content: ⩽3% Bulk density: 400 - 700 kg/m³ Recommended dosage: 0.2% ~ 2.0%by mass of cement.	25KG/Bag	This product does not have any a-dverse effects on the strength of cement mortar and concrete, and the final strength remains unaffected. It can shorten the demolding time.	Repair mortar, grouting material, self-leveling compound, tile adhesive, and other high-performance mortars, as well as ready-mixed concrete.
Crystal Seed Early Strength Agent Xystone S7044	Appearance: Gray powder Moisture content: ⩽3% Bulk density: 400 - 700 kg/m³ Recommended dosage: 0.1% ~ 1.0%by mass of cement.	25KG/Bag	This product does not have any a-dverse effects on the strength of cement mortar and concrete, and the final strength remains unaffected. It can shorten the demolding time.	Sulfoaluminate system mortars, high-alumina system repair mortars, self-leveling grouts, tile adhesives, and other high-performance mortars.
Liquid Crystal Seed Early Strength Agent Xystone S7000	Appearance: Milky white liquid Solid content: 15.0±1.0 pH: 10 -12 Chloride ion content: ⩽0.1% Recommended dosage: 0.5% ~ 5.0%by mass of cement.	200KG/Drum 1000KG/Drum	Liquid nano crystal seed early strength agent, which promotes the early hydration process of cement and significantly improves the early strength of concrete and mortar products within 48 hours.	Ready-mixed concrete, precast concrete components, grouting materials, shotcrete, precast elements, and high-performance mortar.
Chloride-free Powder Early Strength Agent Xystone S6100	Appearance: White powder Loss on drying: ⩽3.0 % pH: 8 - 10	25KG/Bag	A powder early strength agent compounded from various materials, which promotes the early strength development of Portland cement.	Repair mortar, grouting material, self-leveling compound, tile adhesive, and other cement-based dry-mix mortars.
Chloride-free Liquid Early Strength Agent Xystone AC-50	Appearance: Colorless clear liquid Density (20℃) : 1.17g/cm³ pH: 6.5 - 8.0	200KG/Drum 1000KG/Drum	Chloride-free liquid early strength agent for concrete, which improves the early strength of concrete without affecting workability.	Precast concrete, prestressed concrete, low-temperature concrete, and fast-track construction projects.
Chloride-free Liquid Early Strength Agent Xystone AC-100	Appearance: Colorless clear liquid Density (20℃) : 1.37g/cm³ pH: 8.0 - 9.0 Viscosity:>7mPa · s	730KG/Drum 1000KG/Drum	Low-alkali, chloride-free liquid concrete early strength agent, which improves early strength while having no negative impact on final strength.	Precast concrete, prestressed concrete, low-temperature concrete, and fast-track construction projects.
Liquid Accelerating and Early Strength Agent Xystone AC-200	Appearance: Brown liquid Density (20℃) : 1.35g/cm³ pH: 3.5 - 6.5	200KG/Drum 1000KG/Drum	A multi-component, chlorine-free, high-performance liquid early strength agent for concrete that shortens the setting time over a wide range of temperatures.	Negative-temperature concrete, precast concrete, prestressed concrete, pumped concrete.

02 - Water-retaining / Suspending Agent

新义合成 XYZCHEM

Product Name	Technical Data	Specifications	Product Introduction	Applications
Concrete Viscosity Modifying Agent Xystone RH420	Appearance: Brown liquid pH: 6 - 9 Recommended dosage: Generally 0.5%–2% of the admixture dosage.	200KG/Drum 1000KG/Drum	Its unique mode of action in concrete enables the viscosity of the mixture to achieve a balance between flowability, passability, and segregation resistance, and it is used in combination with water-reducing admixtures.	Prevent segregation and bleeding of concrete, and reduce the sensitivity of concrete to fluctuations in water content.
Concrete Viscosity Modifying Agent Xystone RH430	Appearance: Brown liquid pH: 6 - 9 Recommended dosage: Generally 0.5%–2% of the admixture dosage.	200KG/Drum 1000KG/Drum	It can effectively improve the workability of fresh concrete, allowing the viscosity of the mixture to achieve a good balance between flowability, passability, and segregation resistance, and can be used alone.	Prevent segregation and bleeding of concrete, and reduce the sensitivity of concrete to fluctuations in water content.
Mortar Suspending Agent Xystone SH-F3	Appearance: Yellow powder Moisture content: ⩽3% pH: 7±1 Chloride ion content: ⩽ 0.06% Recommended dosage: 0.001–0.03% by weight of the material	25KG/Bag	A product developed to solve problems such as bleeding of mortar and concrete, and settlement of sand and aggregates. It ensures that mortar and concrete have high fluidity while maintaining good cohesion.	Gypsum-based and cementbased self-leveling compounds, grouting materials, grouting agents, etc., and flowable concrete.
Concrete Suspending Agent Xystone SH-F2N	Appearance: Light yellow powder Moisture content: ⩽3% pH: 7±1 Chloride ion content: ⩽ 0.06% Recommended dosage: 0.1–0.3% by weight of the admixture	25KG/Bag	A product developed to solve problems such as bleeding of mortar and concrete, and settlement of sand and aggregates. It ensures that mortar and concrete have high fluidity while maintaining good cohesion.	Pumpable concrete, self-compacting concrete, other cement-based products.
Anti-bleeding Agent Xystone SH-W2	Appearance: White powder Moisture content: ⩽3% pH: 7±1 Chloride ion content: ⩽ 0.06% Recommended dosage: 0.05–0.3% by weight of mortar	25KG/Bag	A product developed to solve the problems of bleeding, segregation, and easy settlement of sand in high-fluidity mortar, featuring anti-bleeding performance.	Cement-based and gypsum-based self-leveling mortars, inorganic grouting materials, grouting agents, etc.
Mortar Viscosity Modifying Agent Xystone SH3050C	Appearance: Light yellow powder Moisture content: ⩽5% Bulk density: 650 - 850 (kg/m³) Recommended dosage: 0.01–0.50% by mass of dry mortar	25KG/Bag	Provides highly effective anti-settling and anti-bleeding effects for cement-based and gypsum-based mortars, combining suspending and water-retaining properties.	Cement-based self-leveling mortar, gypsum-based self-leveling mortar, grout, and grouting agent.
Mortar Viscosity Modifying Agent Xystone SH3040C	Appearance: White powder Moisture content: ⩽3% 1%Liquid pH: 7±1 Chloride ion content: ⩽ 0.06% Recommended dosage: 0.03–0.5% by weight of mortar	25KG/Bag	A stabilizer developed for issues such as high sensitivity to water content in flowable mortar, easy settlement of sand, and difficulty in pumping.	Cement-based and gypsumbased mortars, inorganic grouting materials, and grouting agents.

02 - Water-retaining / Suspending Agent

新义合成 XYZCHEM

Product Name	Technical Data	Specifications	Product Introduction	Applications
Mortar Water-retaining Thixotropic Agent Xystone SH4001	Appearance: White powder Moisture content: ⩽ 3% pH: 7 - 10 Chloride ion content: ⩽ 0.06%	25KG/Bag	Provides excellent thixotropic and water-retention properties for mortar, increasing its resistance to sagging and slumping.	Cement-based and gypsum-based mortars, inorganic grouting materials, grouting agents, tile adhesives, putties, and plastering mortars.
Setting Accelerator Suspending Agent Xystone SH-C1	Appearance: Gray powder Moisture content: ⩽ 5% Bulk density: 0.5 - 0.6 g/cm^3 Recommended dosage: 0.3% to 1.0% by mass of the accelerator	25KG/Bag	A powder composite gel material that, after being dispersed in water, exhibits suspending, thickening, and thixotropic properties, and can be applied in suspension-type accelerators.	Suspension-type alkali-free accelerator, Suspension-type low-alkali accelerator
Setting Accelerator Suspending Agent Xystone SH-C2	Appearance: Gray powder Moisture content: ⩽ 5% Recommended dosage 0.3% to 1.0% by mass of the accelerator	25KG/Bag	A powder composite gel material that, after being dispersed in water, exhibits suspending, thickening, and thixotropic properties, and can be applied in suspension-type accelerators.	Suspension-type alkali-free accelerator, Suspension-type low-alkali accelerator

Mortar Bleeding and Segregation?

SH-F2N is a new type of suspending agent made from high-molecular polymer through a high-tower spray process. It ensures that concrete maintains high fluidity while exhibiting good cohesion and uniform distribution of sand and aggregates. When used in combination with polycarboxylate superplasticizer, it effectively improves pumping efficiency, enhances concrete cohesion, prevents aggregate sedimentation, and reduces segregation.



03 - Air-entraining Agent

Product Name	Technical Data	Specifications	Product Introduction	Applications
Powder Air-entraining Agent Xystone AE1450	Appearance: White powder Moisture content: ⩽3% pH: 7±1 Chloride ion content: ⩽ 0.06%	25KG/Bag	A mixture of proprietary surfactants for the construction field, with good compatibility with various materials such as cement and gypsum.	Wet-mix mortar, gypsum -based building materials cement-based dry-mix mortar, foamed concrete.
Powder Air-entraining Agent Xystone AE1460	Appearance: Light yellow powder Bulk density: 300±100 Kg/m³ Moisture content: ⩽3% Chloride ion content: ⩽ 0.06%	25KG/Bag	A mixture of proprietary wetting surfactants with very fast foaming speed and little effect on strength.	Wet-mix mortar, gypsum -based building materials cement-based dry-mix mortar, foamed concrete.
Liquid Air-entraining Agent Xystone AE330	Appearance: colorless transparent liquid Solid content: ⩾31% pH: 9±1 Chloride ion content: ⩽ 0.06% Density: 1.03g/cm³	200KG/Drum 1000KG/Drum	Has very good dispersibility and workability, fast foaming speed, good re-foaming capability, low dosage, and good compatibility.	Polycarboxylate series concrete additives, wet-mix mortar admixtures, fo amed gypsum, foamed cement, etc.
Liquid Air-entraining Agent Xystone AE360	Appearance: transparent yellow liquid Solid content: ⩾25% pH: 8.0-10.0 Chloride ion content: ⩽ 0.05% Density: 1.05g/cm³	200KG/Drum 1000KG/Drum	Strong air-entraining ability in hard water and alkaline environments, low dosage, good compatibility, uniformly sized microbubbles, and long-lasting stability.	Polycarboxylate series concrete additives, wet-mix mortar admixtures.
Liquid Air-entraining Agent Xystone AE520	Appearance: transparent liquid Solid content: 27 ± 1% Viscosity: 50 - 100mPa.s Density: 1.01g/ml	200KG/Drum 1000KG/Drum	An air-entraining agent for concrete and mortar based on an anionic surfactant mixture, producing fine and uniform bubbles with good foam stability.	Ready-mixed concrete, concrete products, ready -mixed mortar and wet-mix mortar, AE-type PCE water-reducing agent.
Liquid Air-entraining Agent Xystone AE530	Appearance: yellow transparent liquid Solid content: 36 ± 1 Chloride ion content: <0.1% pH: 6 - 9	200KG/Drum 1000KG/Drum	A proprietary surfactant mixture developed specifically for concrete, with low dosage, good compatibility, fine and stable bubbles, and high pressure resistance.	For use in the production of concrete water-reducing agents, wet-mix mortar admixtures, and other products such as concrete and mortar.

Air-entraining Foaming Agent



An air-entraining agent is a surface-active substance with hydrophobic properties. It can significantly reduce the surface tension and surface energy of concrete mixing water, generating a large number of tiny, stable, closed bubbles within the concrete. These bubbles cut off some capillary channels, thereby relieving the expansion pressure generated when concrete freezes, preventing the concrete from being damaged, and playing a role in buffering and pressure reduction.

Product Name	Technical Data	Specifications	Product Introduction	Applications
Powder Defoamer Xystone FS 202	Appearance: white powder Moisture content: ⩽ 3% pH: 7 -9 Chloride ion content: ⩽ 0.05%	25KG/Bag	A powder defoamer based on modified polyether as the main component, with rapid bubble-breaking and long-lasting foam suppression capabilities.	Suitable for high-flow gypsum mortar, high-flow cement-based mortar, and other cement or gypsum-based mortars.
Powder Polyether Defoamer Xystone FS 203	Appearance: white powder Active ingredient: ≈ 70% Bulk density: ≈ 0.3g/cm^3	25KG/Bag	Powder defoamer based on fatty acid ethoxylates and inorganic carrier hydrocarbons.	Suitable for dry-mix mortar, powder coatings, leveling agents, etc.
Powder Polyether Defoamer Xystone FS 206	Appearance: white powder Moisture content: ⩽ 5% pH: 7 ±1 Chloride ion content: ⩽ 0.05%	25KG/Bag	A special powder defoamer developed for dry-mix mortar, free of silicone.	Suitable for self-leveling mortar, grout, repair mortar, and other dry-mix mortar materials.
Powder Defoamer Xystone FS 209	Appearance: white powder Active ingredient: ≈ 70% Bulk density: ≈ 0.30g/cm^3	25KG/Bag	Powder defoamer based on fatty acid ethoxylates and inorganic carrier hydrocarbons.	Dry-mix mortar, powder coatings, leveling agents, etc.
Powder Defoamer Xystone FS 301	Appearance: white powder Active ingredient: ≈ 70% Bulk density: ≈ 0.30g/cm^3	25KG/Bag	High-performance silicone powder defoamer, used in water treatment to prevent, control, and eliminate foam in aqueous systems.	Dry-mix mortar, powder coatings, leveling agents, etc.

Role of Antifoaming Agent



The main purpose of adding a defoamer to mortar building materials is to suppress and eliminate air bubbles generated during mixing and construction, thereby improving the performance and construction quality of the mortar. Its specific functions are as follows:

1. Reduce harmful bubbles and increase compactness: During mixing, pumping, or construction, air can be entrapped in the mortar, forming unstable bubbles. After curing, these bubbles create pores inside the mortar, reducing its compressive strength, impermeability, and durability. The defoamer quickly breaks the bubbles, reduces porosity, and makes the mortar more compact.2. Improve surface quality;
3. Optimize construction performance;
4. Enhance mechanical properties and durability;
5. Prevent foam caused by additives.

05 - Water-reducing Agent

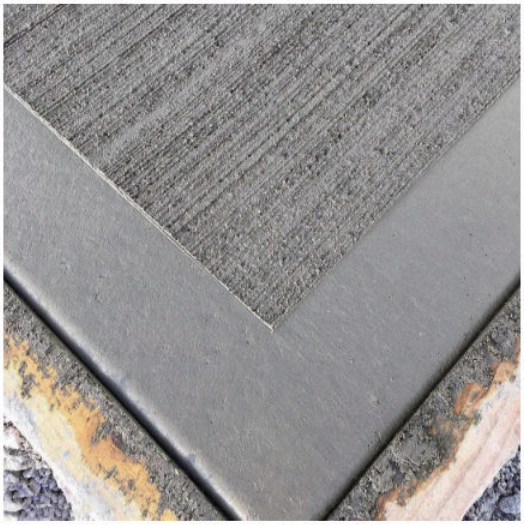
新义合成 XYZCHEM

Product Name	Technical Data	Specifications	Product Introduction	Applications
Gypsum-based Water-reducing Agent Xystone CP1803	Appearance: white to light yellow powder Bulk density: 400 - 700kg/m³ Moisture content: ⩽ 3% pH: 7 - 9 Chloride ion content: ⩽ 0.05%	25KG/Bag	Can be used in various gypsum casting materials, such as phosphogypsum, flue-gas desulfurization gypsum, high-strength gypsum, artificial stone, and other materials.	Gypsum-based self-leveling mortar, gypsum internal partition panels, and other gypsum products.
Polycarboxylate Superplasticizer Xystone CP1903	Appearance: white free-flowing powder Bulk density: 400 - 700kg/m³ Moisture content: ⩽ 5% Chloride ion content: ⩽ 0.05% Fluidity of cement paste: ⩾ 210mm Concrete water reduction rate: ⩾ 30%	25KG/Bag	CP1903 has strong dispersibility and a high water reduction rate due to its own molecular structure.	Non-shrink grouting material, grouting agent, cement-based self-leveling mortar, gypsum-based self-leveling compound, etc.
Viscosity-reducing Superplasticizer Xystone CP1200	Appearance: light red powder Chloride ion content: 0.05% Fluidity of cement paste: ⩾ 210mm Concrete water reduction rate: ⩾ 30% Recommended dosage: 0.02% to 0.3% by total weight of mortar	25KG/Bag	Reduces cement viscosity, especially suitable for high-grade mortar with a low water-to-binder ratio, and lowers mortar viscosity without increasing air content.	High-strength and ultra-high-strength concrete, flowable concrete, self-compacting concrete, precast concrete, pumped concrete, and other concretes.
Superplasticizer Xystone CP1900	Appearance: light yellow powder Ionic type: anionic Active ingredient:> 90% Bulk density:0.5 - 0.7 Recommended dosage: 0.05%–0.6% by mass of cement	25KG/Bag	Improves slump retention performance and provides high impermeability. Contains no chloride ions and has no corrosive effect on steel reinforcement.	Building materials for mineral binders.
Melamine Superplasticizer Xystone CP1000	Appearance: white to light yellow powder Bulk density: 400 - 700kg/m³ Moisture content: ⩽ 5% pH:7 - 9 Chloride ion content: ⩽ 0.05%	25KG/Bag	A superplasticizer produced by polymer condensation, suitable for cement-based or gypsum-based mortars requiring high fluidity and high strength.	Flowable mortar for grouting, gypsum mortar, steam-cured concrete, etc.
Special Cement Water-reducing Agent Xystone CP1701X	Appearance: light pink powder Bulk density: 400-700kg/m³ Moisture content: ⩽ 3% pH: 7 - 9 Chloride ion content: ⩽ 0.06% Fluidity of cement paste: ⩾ 200mm	25KG/Bag	A polycarboxylate water-reducing agent developed and produced for special mortars, with good compatibility with special cements such as high-alumina cement and sulfo-aluminate cement.	Early-strength mortar containing high-alumina cement, sulfoaluminate cement, etc.
Gypsum-based Water-reducing Agent Xystone CP1801X	Appearance: light pink powder Bulk density: 400-700kg/m³ Moisture content: ⩽ 3% pH: 7 - 9 Chloride ion content: ⩽ 0.05%	25KG/Bag	A polycarboxylate water-reducing agent developed and produced for gypsum-based mortar.	Sand-containing gypsum-based self-leveling mortar, pure gypsum self-leveling mortar, and high-flow cement-based mortar.

Product Name	Technical Data	Specifications	Product Introduction	Applications
Plastic Expansive Agent Xystone EP-2	Appearance: Yellow powder Bulk density: 300-600kg/m³ Moisture content: ⩽ 3% Chloride ion content: ⩽ 0.05% Suitable dosage: 0.0015% – 0.01%	25KG/Bag	Universal plastic expansive agent, stable performance, low dosage, obvious early expansion, and wide application range.	Non-shrink grouting materials, grouting agents, etc., concrete requiring plastic expansion, and other cement-based materials.
Capillary Crystalline Waterproofing Masterbatch Xystone ST002	Appearance: White powder Moisture content: ⩽ 3% pH: 10±1 Chloride ion content: ⩽ 0.06%	25KG/Bag	A product that reacts with free calcium ions in concrete and mortar to form water-insoluble crystalline substances, thereby improving the internal microstructure of mortar and concrete.	Improve the compactness and impermeability of concrete.
Capillary Crystalline Waterproofing Masterbatch Xystone ST003	Appearance: White powder Bulk density: 400-700kg/m³ Moisture content: ⩽ 3% pH: 7 - 9 Chloride ion content: ⩽ 0.05% Recommended dosage: 0.02% to 0.2% by total weight of mortar	25KG/Bag	It reacts with free calcium ions in concrete and mortar to form water-insoluble crystalline substances, thereby enhancing the surface compactness of concrete and mortar.	High-flow gypsum mortar , high-flow cement-based mortar, and other cement or gypsum-based mortars.
Viscosity Reducing Agent for Concrete Xystone V203	Moisture content: ⩽ 13% pH: 6 ± 1 Viscosity (20℃) : 600-800mPa.s Density (20℃) : 1.06g/c	200KG/Drum	Adjust the HLB value to optimize concrete cohesiveness and improve the issue of poor fluidity that hinders pumping.	Suitable for industrial and civil buildings, roads, bridges, ports and wharves, precast and cast-in-situ concrete.
Concrete Curing Agent Xystone YH5004	Appearance: milky white liquid Solid content: not less than 35% Water retention rate: not less than 90% Drying time: less than 3 hours	200KG/Drum 1000KG/Drum	A product that, when sprayed or brushed onto the surface of concrete products, maintains moisture in the concrete to prevent loss and ensures sufficient cement hydration.	Freshly cast concrete, prestressed concrete, and other cement-based products requiring curing.
Liquid Shrinkage Reducer for Mortar Xystone SRA 085	Appearance: transparent liquid Solid content: 100% Viscosity/mPa.s (25℃: 4.12 Density: 0.97±0.03g/cm³	190KG/Drum 1000KG/Drum	A liquid shrinkage reducer used to reduce the drying shrinkage of concrete, without affecting the workability of fresh concrete.	Various types of concrete with requirements for shrinkage reduction.
Mortar Powder Shrinkage Reducer Xystone SRA 8711	Appearance: White powder Chloride ion content: <0.1% Bulk density: 600-900g/cm³ pH: 7.0 - 9.0	25KG/Bag	A powder-type shrinkage reducer with organic matter as the main active substance, which delays water evaporation and promotes full hydration of cement.	Suitable for plastering mortar, repair mortar, decorative mortar, polymer cement mortar, etc.
Mortar Wetting and Dispersing Agent Xystone WD 3919	Appearance: white powder Moisture content: ⩽ 3% pH: 7.0 ± 1 Chloride ion content: ⩽ 0.06%	25KG/Bag	A dry powder product with both wetting and dispersing functions, suitable for decorative mortar, improving issues such as floating color and uneven color distribution in the slurry.	Suitable for decorative mortar, surface self-leveling compounds, polymer waterproofing products, etc.

Product Name	Technical Data	Specifications	Product Introduction	Applications
Oil-based Concrete Release Agent Xystone Formoil-100	Appearance: Yellow liquid Flash point: 124 ℃ Freezing point: -33 ℃	200KG/Drum IBC Drum	An oil-based release agent that can be used for both wooden formwork and steel formwork, while also providing waterproofing and rust inhibition.	Wooden formwork, metal formwork, concrete transport vehicles, waste transport vehicles, etc.
Oil-based Concrete Release Agent Xystone Formoil-200	Appearance: clear to brown liquid Density: 0.75±0.05g/m³	200KG/Drum IBC Drum	An oil-based, ready-to-use release agent that provides excellent release performance on various types of wood, metal, and plastic formwork.	Wooden formwork, metal formwork, plastic formwork.
Water-based concrete release agent Xystone Formoil-300	Appearance: milky white liquid Density: 0.75±0.05g/m³	200KG/Drum IBC Drum	A ready-to-use, solvent-free, water-based release agent based on mineral oil emulsion.	Wooden formwork, metal formwork, plastic formwork.
Water-based concrete release agent Xystone Formoil-400	Appearance: milky white liquid Density: 0.75±0.05g/m³	200KG/Drum IBC Drum	A ready-to-use, solvent-free, biodegradable and environmentally friendly water-based release agent based on vegetable oil emulsion.	Wooden formwork, metal formwork, plastic formwork.
Water-based concrete release agent Xystone Formoil-500	Appearance: milky white liquid Density: 0.75±0.05g/m³	200KG/Drum IBC Drum	A high-quality, ready-to-use, solvent-free, biodegradable and environmentally friendly water-based release agent based on oil emulsion, with anti-rust properties.	Wooden formwork, metal formwork, plastic formwork.
Viscosity Reducer Xystone V203P	Appearance: white to gray powder pH: 8.0±1	25KG/Bag	V203P Viscosity Reducer is an organic polymer developed for mortar systems with low water-cement ratios.	Suitable for mortar with low water content and high viscosity.

Concrete Release Agent



Concrete release agent establishes a reliable temporary barrier between the formwork and the concrete, ensuring that the formwork can be smoothly removed from the hardened concrete without damage. This protects the surface quality of the concrete component and preserves the formwork itself, ultimately enhancing the efficiency, quality, and cost-effectiveness of concrete construction. It is an indispensable key material for achieving high-quality concrete surfaces (especially fair-faced concrete) and efficient formwork turnover.

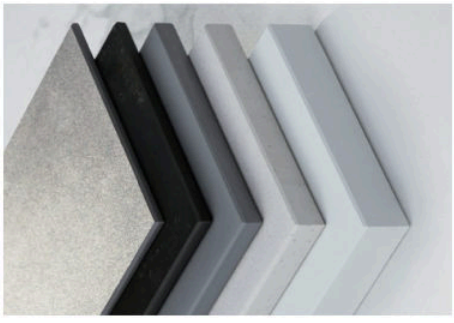
06 - Other Additives

Product Name	Technical Data	Specifications	Product Introduction	Applications
Thixotropic Lubricant Xystone TH4601	Appearance: white to off-white powder Chloride ion content: < 0.1% Moisture content: ⩽ 13%	25KG/Bag	In mineral-based mortars with cement or gypsum as binders, it enhances the anti-sagging perf-ormance of dry-mix mortars to achieve smooth workability.	Cement-based and gypsum-based plastering mortars, t-ile adhesives, bonding mor-tars, and putties.
Concrete Anti-cracking Agent Xystone CRA-100	Appearance: yellow to brown liquid Density: 0.98 g/cm³ Solubility: Soluble in water.	1000KG/IBCDrum	Innovative liquid concrete anti-cracking agent, which can sign-ificantly reduce drying shrinka-ge and minimize the risk of cracking.	For use in ready-mixed co-ncrete and precast concrete components that require reduced drying shrinkage and extended durability.
Concrete Rust Inhibitor Xystone ZX-001	Appearance: transparent liquid Chloride ion content:<0.1% Alkali content:<1.0%	200KG/Drum IBCDrum	Provides rust protection for st-eel reinforcement in concrete, with special protection against corrosion caused by chlorides.	Roads, bridges, tunnels, and other reinforced conc-rete structures.
Concrete Rust Inhibitor Xystone ZX-002	Appearance: light yellow liquid Density: 1.3 g/cm³ pH: 8.0 ~ 9.5	200KG/Drum IBC Drum	Effectively prevents chloride io-ns in concrete and extends the service life of reinforced concr-ete structures.	Docks, offshore bridges, an-d other reinforced concrete projects or components su-sceptible to chloride ion at-tack.
Concrete Rust Inhibitor Xystone ZX-003	Appearance: milky white liquid Density: 0.98~0.99 g/cm³ Solubility: miscible with water in any proportion	200KG/Drum IBC Drum	It has a dual rust inhibition fu-nction, namely corrosion inhibi-tion and waterproofing.	Reinforced concrete, inclu-ding precast prestressed c-oncrete and concrete com-ponents.
Concrete Rust Inhibitor Xystone ZX-004	Appearance: clear to slightly turbid liquid Density: 0.88 g/cm³	190KG/Drum	Penetrates into the concrete to prevent electrochemical corrosi-on between the reinforcement and chloride ions, oxygen, and water.	Cast-in-place, precast, post-tensioned, prestressed conc-rete, etc.
Dry-mix Mortar Dust Suppressant Xystone YC-001	Appearance: transparent liquid Density: 1.0±0.01g/ml	200KG/Drum	High-efficiency dust suppression, does not affect the storage life of cement materials, and has li-ttle impact on mechanical prop-erties such as compressive and flexural strength.	Various types of floor mort-ar, waterproofing mortar, r-epair mortar, putty, tile ad-hesive, etc.
Dry-mix Mortar Dust Suppressant Xystone YC-60	Appearance: colorless transpar-ent viscous liquid Density: 1.1~12g/cm³	190KG/Drum IBC Drum	High-efficiency dust suppression, does not affect the shelf life of cement materials, and has a ce-rtain effect on reducing the dry-ing shrinkage and water absorp-tion of mortar.	Various types of cement-ba sed and gypsum-based dry-mix mortar products.
Dry-mix Mortar Dust Suppressant Xystone YC-100	Appearance: colorless transpar-ent liquid Density: 0.944g/cm³	190KG/Drum IBC Drum	High-efficiency dust suppression, does not affect the shelf life of cement materials, and has little impact on its mechanical prope-rties such as compressive and flexural strength.	Various types of floor mor-tar, waterproofing mortar, repair mortar, putty, and tile adhesive.

07 - Gypsum Additives / Preservatives

Product Name	Technical Data	Specifications	Product Introduction	Applications
Gypsum Accelerator Xystone SF15 C	Appearance: white powder Moisture content: ⩽5% Fineness: 70 - 80 mesh Recommended dosage: 0.05% to 0.5% by mass of gypsum	25KG/Bag	A gypsum-specific accelerator that speeds up the hardening process of gypsum substrates after contact with water.	Gypsum board, artistic gypsum, gypsum self-leveling compound, and other gypsum products.
Gypsum Accelerator Xystone SF16 C	Appearance: white powder Moisture content: <3% Chloride ion content: <1 Recommended dosage: 0.5% to 2.5% by weight of gypsum	25KG/Bag	A new product developed specifically for hemihydrate gypsum, which shortens the setting time of gypsum and increases early strength, etc.	Gypsum self-leveling compound, gypsum mortar, and other gypsum products, etc.
Gypsum-based Waterproofing Agent Xystone SL17	Appearance: colorless transparent liquid Density: 1.012g/cm^3 pH: 11±1 Chloride ion content: ⩽0.06%	50KG/Drum	An organic water repellent containing active silicon, applied to gypsum-based materials, forms a dense water-resistant network structure inside the gypsum crystals.	Waterproof gypsum board, gypsum-based self-leveling compound, other gypsum-based products.
Gypsum Retarder Xystone SJ 12	Appearance: Light yellow powder Moisture content: ⩽3% pH: 8 ±0.5 Dosage: 0.05% to 0.5% of the cementitious material	25KG/Bag	A new type of protein-based gypsum retarder, with its special molecular structure and retarding mechanism, can provide the required setting time for gypsum at a low dosage.	Gypsum board production, gypsum-based construction mortar, gypsum-based self-leveling compound, etc.
Preservative Xystone PV166	Appearance: colorless to light yellowish-green liquid Dosage: 0.05%~0.3%	50KG/Drum	Broad-spectrum and highly effective, with fast sterilization, long-lasting duration, and inhibition of microbial growth.	Concrete admixtures, wet-mix mortar additives, cement grinding aids, and other liquid products.
Powder Anti-mildew Agent Xystone PV520 P	Appearance: colorless to slightly yellow powder Odor: Slight pH: Neutral Solubility: almost insoluble in water	25KG/Bag	A safe and environmentally friendly broad-spectrum preservative and fungicide, used in gypsum, mortar, and putty powder coatings.	Gypsum, mortar, putty, powder coating, etc.
Gypsum Board Foaming Agent Xystone LGS 6000	Appearance: transparent liquid Solid content: 34 - 36% pH: 10.0~11.4	190KG/Drum	An anionic surfactant mixture featuring excellent low-temperature fluidity, large foam size, and good compatibility.	Lightweight, low-density gypsum boards and other gypsum products.

Gypsum-based Reactive Waterproofing Agent



SL-17 is an organic water repellent containing active silicon, primarily intended for use in gypsum-based materials. SL-17 reacts with Ca^{2+} ions in gypsum to form a network structure, creating a dense water-resistant network within the gypsum crystals. It is suitable for both phosphogypsum and flue-gas desulfurization gypsum. When added internally, it does not affect strength; when used externally, it exhibits strong penetrating ability.

08 - Primer Emulsion

Product Name	Technical Data	Specifications	Product Introduction	Applications
Waterproof Emulsion Xystone LH914	Appearance: milky white liquid Solid content: 54.5%~56.5% Viscosity: 2500~4500 mPa.s pH: 4.0~6.5 TG: approx.0℃	200KG/Drum 1000KG/Drum	This emulsion has good dispersib -ility in cement fillers, as well as good water resistance and good mechanical properties.	It can be mixed with ce-ment for use, improving the flexural strength of concrete, and can also be used in products such as waterproof coatings.
Primer Emulsion Xystone LE410	Solid content: 58%±1 Viscosity(25℃: 2000 - 4000mPa.s TG℃: 10 pH: 4.0 – 6.3	200KG/Drum 1000KG/Drum	High solid content and relatively low viscosity, good fluidity, goo-d compatibility with cement, no ammonia release in alkaline envi -ronments, and low odor.	Primer, tile adhesive, wa-terproofing mortar, repair mortar, self-leveling putty
SBR Emulsion Xystone LF763D	Solid content: 51±1% pH: 7.0 – 9.0 Viscosity: 50 - 300 mPa · s TG: 14 ℃ Density: approx. 1.04 g/cm3	200KG/Drum 1000KG/Drum	Anionic water-based dispersion, f -ree from plasticizers, phthalates, APEO, formaldehyde, ammonia, etc.	Rigid and semi-flexible waterproofing mortar, tile adhesive, repair mortar, binder, primer, leveling mortar, self-leveling com-pound, etc.
JS Waterproof Emulsion Xystone LC 400G	Solid content: 55±1% pH: 7.0 – 9.0 Viscosity: 500 - 2000 mPa · s TG: -17 ℃ Ionic type: anionic	50KG/Drum 200KG/Drum 1000KG/Drum	A flexible styrene-acrylic emulsio -n with a core-shell structure, po -lymerized from styrene, acrylate, and low-ammonia raw materials.	Non-cement-based water proof coating, cement-b-ased waterproof coating and waterproofing mort-ar, highly flexible tile ad hesive, putty, plaster, p-rimer, sealant, etc.



Modified Mortar Emulsion

Polymer cement mortar waterproof latex is refined from imported polymer building emulsion as the main component, supplemented by a variety of composite additives. When mixed into cement mo-rtar, it forms a unique composite network structure with a certain degree of flexibility, greatly enhancing the crack resistance and i-mpermeability of the cement mortar, and significantly improving properties such as bonding strength.

09 - Fair-faced Concrete Solution

Product Name	Technical Data	Specifications	Product Introduction	Applications
Fair-faced Concrete Primer Xystone P002	Appearance: colorless to slightly yellow powder Odor: Slight pH: Neutral Solubility: almost insoluble in water	100KG/Drum	A solvent-free, low-VOC silane paste water repellent with excellent penetrating ability and strong alkali resistance. It is a high-quality waterproof protective agent specially used for ordinary concrete and reinforced concrete.	Ordinary concrete and reinforced concrete for the construction of bridges, roads, and buildings.
Silicone-acrylic Midcoat Color Adjusting Pain Xystone M001	Application method: Ready to u -se; can be applied by spraying, rolling, or brushing. Coverage: 6 –8 m^2/kg. Deviation may occur due to substrate flatness.	100KG/Drum	Excellent UV resistance, yello - wing resistance, water whitening resistance, stain resistance, and matte finish.	Bridge concrete color correction, exterior wall coatings.
Silicone-Acrylic 30% Gloss Topcoat Xystone T003	Application method: Ready to use; can be applied by spraying, rolling, or brushing.	100KG/Drum	Silicone-acrylic coating with excellent UV resistance, yellowing resistance, excellent water whitening resistance, excellent stain resistance, and 30% gloss.	Bridge concrete topcoat, stone-like paint topcoat, and multicolor paint topcoat.

Fair–faced Concrete



Fair-faced concrete is formed through one-time pouring and is left without any additional decorative finishes. Its decorative surface is a natural expression achieved through the texture and quality of the structural concrete itself, c ombined with carefully designed visible joints, recessed joints, and tie rod holes.

Since fair-faced concrete does not involve any other decorative materials, its resistance to wind and rain must be carefully addressed in accordance with the specifications for the protective layer of reinforced concrete. Therefore, meticulous management is required during the construction phase, which often makes both project owners and contractors hesitant to adopt this method. However, fair-faced concrete structures exhibit exceptional aesthetic qualities, including a unique sense of strength, cleanliness, and material authenticity.

10 - Building Materials Hydrophobic Agent

Product Name	Technical Data	Specifications	Product Introduction	Applications
Water Repellent Agent Xystone BT 101	Appearance: Milky white liquid Active ingredient: approx. 50% Specific gravity at 20°C: approx. 0.95 g/cm³	60KG/Drum 120KG/Drum	BT101 is an emulsion based on silane and modified polysiloxane, used as a water repellent for manufacturing water-based impregnating agents or as a primer for mineral substrates.	Various mineral substrates such as brick, clinker, chalk sandstone, and natural stone or mineral plaster.
Water Repellent Agent Xystone BT 136	Appearance: milky white to white liquid Active ingredient: approx. 50% pH value: approx. 9 Specific gravity at 0°C: approx. 1 g/cm³	60KG/Drum 120KG/Drum	An aqueous emulsion of functional polysiloxane as a solvent-free additive for waterborne coating systems, which reduces water absorption, improves the pearlescent effect, and does not affect water vapor permeability.	Exterior wall coatings or gypsum-based products; other building materials.
Water Repellent Agent Xystone BT 182	Appearance: milky white liquid Active ingredient: approx. 50% Specific gravity at 20°C: approx. 0.95 g/cm³³	60KG/Drum 120KG/Drum	A solvent-free emulsion of organically modified silanes and siloxanes, dilutable with water.	Non-load-bearing concrete and other special cement products
Water Repellent Agent Xystone BT 404	Appearance: milky white liquid Active ingredient: approx. 50% pH value: 6.0 – 8.0 Specific gravity at 20°C: approx. 1 g/cm³	60KG/Drum 120KG/Drum	Designed and developed based on alkyl polysiloxane oligomers, it is a water-dilutable, water-based, solvent-free silane-siloxane emulsion.	Ceramsite, aerated concrete, sand-lime bricks, fiber cement products, mineral fiber products, lightweight aggregates, and other building materials.

The function of a water repellent agent



The main purpose of adding a waterproofing agent to concrete, mortar, and other building materials is to improve the material's impermeability, water resistance, and durability.

Adding a waterproofing agent to concrete and mortar is not merely about surface waterproofing; it provides deep-level protection for the building structure. Through physical barrier effects (pore blocking and water repellency) and chemical protection (rust inhibition and corrosion resistance), it comprehensively enhances the material's impermeability, durability, and structural integrity, ultimately achieving the fundamental goals of extending the service life of buildings and reducing maintenance costs.

11 - Mortar Hydration Control Agent

Product Name	Technical Data	Specifications	Product Introduction	Applications
Ternary System Mortar Hydration Control Agent Xystone S 3760	Appearance: White powder Odor: Slight pH: 10-12 Bulk Density: 700-900 kg/m³	25KG/bag	Xinyitong S 3760 is an additive that regulates the cement hydration process, with its main component being a chemically modified polymer.	Ternary system flowable mortar and ternary system tile adhesive, etc.

Ternary Hydration Control Agent



S 3760 is a powdered retarder based on a chemically modified polymer and an inorganic carrier material. It is specially optimized for retarding the setting of ternary system self-leveling underlayments based on calcium aluminate cement (CAC), ordinary Portland cement (OPC), and calcium sulfate (anhydrite, or a mixture of anhydrite and hemihydrate). It enables dry-mix mortar formulations without the need for adding lithium salts. At the same time, the early strength development and storage stability of the system are improved.

新义合成
XYZCHEM

Green | Eco-friendly | Healthy

www.xyzchem.com
Inquiry Hotline: 400 855 1116
Address: Rooms 2908-2912, Block C, Wanda Mall, No. 181 Xianlin Avenue, Qixia District, Nanjing, Jiangsu, China