



Weifang Beacon Chemical Building Materials Co.,LTD

COMPANY PROFILE

Weifang Beacon Chemical Building Materials Co.Ltd is located in weifang city, shandong province. The company is a professional manufacturer of concrete admixtures which integrates scientific research, development, synthesis, compound and after-sales service more than 10 years.

The company is mainly engaged in the production, research, development and sales of sodium naphthalene sulphonate formaldehyde(SNF/PNS/FDN), polycarboxylate based water reducing agent, sodium gluconate, dispersant NNO, lignin and other concrete additives. The product quality is stable, and it is widely used in railway, highway, building, port, dock and other infrastructure construction.

Our high quality concrete water-reducing agents, concrete air-entraining agent, sodium gluconate for concrete, and hydroxypropyl methyl cellulose for concrete are welcomed in southeast Asia, the Middle East, Russia, the united Arab emirates, Indonesia and other countries. In the year 2015, our export value has been more than 10 million USD.

We are always based on our high quality and sincere service to cooperate with our clients. Hope we can be your best partner in near future.



Weifang Beacon Chemical Building Materials Co.,LTD

Factory Corner



Quality Control



All the production is under DCS control system, final quality is confirmed and stable. It is three shift continuously production which make sure every batch products is same best quality.

WEIFANG.CHINA



Testing and Reaserch



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Sodium Naphthalene Sulphonate Formaldehyde(SNF/PNS/FDN)



Product Introduction

This product is Sodium Naphthalene Sulphonate Formaldehyde (SNF) based water reducing agent, made of naphthalene, sulfonic acid, formalin and alkali, through sulphuration, hydrolyzation, condensation and neutralization reaction. It has the advantage of high water reducing ratio, non-delayed coagulation, non-air entraining and strong adaptability. It can improve the workability of concrete to a large extent so as to reduce the water consumption for blending. Meanwhile, it can improve the strength of concrete. In addition, as the main master batch of various kinds of compound concrete admixture, it could produce series products of concrete admixture which can be suitable for all kinds of project requirement through compounding with other kinds of admixture. This product can contribute to the improvement of project quality and construction efficiency and the reduction of construction cost.



Product Parameters

Model Item	SNF-A	SNF-B	SNF-C
Testing Standard	GB8076-2008		
Appearance	Yellow-Brown Powder	Yellow-Brown Powder	Yellow-Brown Powder
Solid Content (%)	92 Min	92 Min	92 Min
PH Value	7-9	7-9	7-9
Na ₂ SO ₄ Content (%)	5 Max	10Max	18 Max
Chlorine Content (%)	0.2 Max	0.2 Max	0.5 Max
Fitness (%)	0.315mm Residue 5 Max	0.315mm Residue 5 Max	0.315mm Residue 5 Max
Flowability (mm)	250 Min	240 Min	230 Min
Water Reducing Rate	27%	25%	22%

Application Scope

1. It is applicable for all precast reinforced concrete and cast-in-place reinforced concrete.
2. It is applicable for high strength, ultra-high strength and moderate strength concrete, and is ideal for early-strength, antifreeze and large fluidity concrete.
3. It is used as the master batch of various kinds of compound concrete admixture.

Product Property

1. It has good dispersion effect on cement, which greatly improves the fluidity of mixing materials, concrete slump can reach 18cm-25cm.
2. Water reducing rate can reach 10%-30%. High water reducing rate can improve the concrete strength at different age: 3 days can increase 20%-60%; during 3rd day to 7th day can increase 15%-50%; the age of 7th day to 28th day can increase 10%-40%. For the same concrete strength, it can save 10%-25% cement consumption.
3. It can improve the impermeability, freeze resistance and corrosion resistance of concrete, reduce the shrink and creep, improve the durability of concrete and prolong its service life.
4. It has good adaptability to all kinds of cement and compatibility with other types of concrete admixtures, so the application range is very wide.
5. Non-delayed coagulation and non-air entraining, no obvious effect on concrete setting time.
6. No and few chloride ion, no corrosion to steel bars.

Product Usage

According to the project requirements, decide the dosage by test. Usually, the suggested dosage is 0.35%-1.5%. Usually, this product is added into the blender together with water. If add before concrete casting, after suitable blending the performance will be better. This product can also mix with cementing materials first, then blend with water.

Package, Storage and Transportation

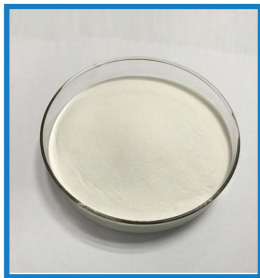
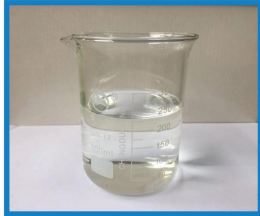
Package: Woven fabric bag with plastic liner, including 25kg/40kg/650kg/700kg bag.

Storage: It should be stored in a dedicated warehouse that is well-ventilated and dry. If caking and lumped, just sieve it by 0.63mm mesh or make it into solution, then use it. Usually, its shelf life is one year, if after the expiration date, it can continue to use when the testing results fall within the established range.

Transportation: This product is non-toxic and non-explosive. It can be transported by truck, ship and train.



Polycarboxylate Superplasticizer (PCE)



Product Introduction

Polycarboxylate superplasticizer is a newly and friendly environmental superplasticizer. It is a concentrated product, best high water content, high slump retention ability, low alkali content for the product, and it having high strength gained rate. It can be widely used in premix of common concrete, gushing concrete, high strength and durability concrete. Especially it has excellent performance in high strength and durability concrete.

Product Parameters

MODEL Item	PCE-Liquid 50%	PCE-Powder95%
Appearance	Light Yellow Liquid/ Colourless liquid	White Powder
Air Content(%)	----	3.0max
PH Value (23℃)	6±1	6±1
Solid Content (%)	50±1	95min
Water Reducing Ratio (%)	25 min	28min
Sodium Sulphate Content (%)	0.01 max	0.01max
Chloride Content (%)	0.1 max	0.10max
Cement net fluidity (mm)	260 min	280min
Density (23℃ , g/cm ³)	1.11±0.05	----

Product Property

1. It can be applied to prefabricated concrete, reinforced concrete and prestressed concrete etc. It suits for different types of cement and acts as good dispersant, especially for early strength cement.
2. It is a kind of anionic/non-ionic liquid admixture, with low-chloride, low-alkali, non-toxic, free effect on ecological environment.
3. It has excellent water-reducing ability that can significantly reduce 25%-40% mixing water in concrete. And it can also greatly reduce slump loss.
4. It has good appearance of hardened concrete, without water lines, big bubbles, and color difference.
5. It has high durability. It can greatly improve compactness, freeze-thaw resistance, carbonation resistance, elastic modulus and impermeability, reduce drying shrinkage and creep of concrete.

Package, Storage & Transportation

PackageA: Sealed plastic drum/IBC tank, including 200kg drum,1100kg IBC tank, or packed according to customer requirements.

PackageB: Woven fabric bag with plastic liner, including 25kg/650kg.

Storage: It should be stored in a dedicated warehouse that is well-ventilated and dry. It remains effective in two years. After the expiration date, it can be used again if the testing results fall within the established range.

Transportation: It is non-toxics, non-flammable and non-explosive goods. It can be transported by truck, ship and train. Cautions should be taken to prevent from being torn by sharp-ended objects while packages are being transferred or delivered. When being contaminated by high humidity or moisture in case of leakage, it can be prepared in prescribed ways for further use without surrendering any effect.

Dispersing Agent NNO/Dispersant/Dispersant NNO



Product Introduction

The dispersant NNO, the chemical name is sodium methylene binaphthalene sulfonate, sodium methylene sulfonate, which has excellent diffusive and protective colloid performance.

Product Parameters

Index	Dispersing Agent NNO-A	Dispersing Agent NNO-B
Appearance	Light-yellow powder	Light-yellow powder
dispersion force %	≥100	≥100
sodium sulfate %	≤5	≤18
Calcium and magnesium ion content %	0.40	0.40
PH value	7-9	7-9
fineness %	≤5	≤5
Purity %	≤95	≤95
Insoluble matter %	≤0.05	≤0.05

Performance

Solubility: the product has good solubility, dispersant NNO is soluble in any hard water, anionic type.
Stability: acid resistance, alkali resistance, heat resistance, hard water resistance, inorganic salt, good stability.
Performance: The dispersant NNO has excellent diffusivity and protective colloid properties, but no permeability and foaming ability known as surface activity, therefore it has affinity to the protein and polyamide fiber, no affinity to cotton and hemp. With 1% alkaline aqueous solution, which has ionization, anionic sex and affinity, can be mixed with anionic and non-ionic surfactants used at the same time.

Application Scope

1. Printing and dyeing industry
2. Building materials industry
3. Agricultural industry
4. Electroplating industry
5. Rubber industry
6. Paper industry
7. Water-soluble paint, pigment dispersant, water treatment agent, carbon black dispersant.

Package, Storage and Transportation

Packaging: Woven fabric bag with plastic liner. Net weight: 25kg±0.1kg

Storage: It should be stored in a dedicated warehouse that is well-ventilated and dry. If caking and lumped, just sieve it by 0.63mm mesh or make it into solution, then use it. Usually, its shelf life is one year, if after the expiration date, it can continue to use when the testing results fall within the established range.

Transportation: This product is non-toxic and non-explosive. It can be transported by truck, ship and train.

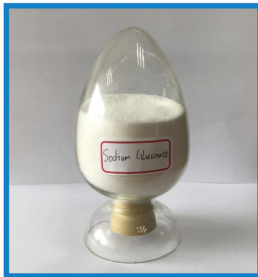
Sodium Gluconate

Product Introduction

Sodium gluconate is a kind of sodium polyhydroxy carboxylic acid, which is also known as sodium hydroxy caproate, which is white or light yellow crystalline granule or powder, easily soluble in water, slightly soluble in alcohol, and insoluble in ether. The product has good effect of retardation and excellent flavor, and is widely used in construction, washing, food and medicine industry.

Product Parameters

Model item	Sodium Gluconate
appearance	White or pale yellow powder or granules
Assay	99% min
PH value	7-8
Heavy metals $\mu\text{g/g}$	0.01% max
Sulfate	0.05% max
chloride	0.07% max
reduzate	0.05% max



Application scope

1. Used as a steel surface cleaner
2. Used as cement admixture
3. The application of sodium gluconate in the construction industry
4. Sodium gluconate can be used as a mixture in concrete, and its function in concrete is as follows: water reducer and retarder
5. Used as a special cleaning agent for glass bottles
6. Used as a water stabilizer



Main performance characteristics

1. After adding a certain amount of sodium gluconate to cement, the plasticity and strength of concrete can be increased, and there is a blocking effect.

2. By adding water reducing agent, water can reduce the cement ratio (W/C). The following effect is obtained by adding sodium gluconate: first, the increase of the working ability in water to cement ratio (W/C), the addition of sodium gluconate can enhance the work. At this time, sodium gluconate is the role of plasticizer. When the amount of sodium gluconate is less than 0.1%, the degree of improvement of the working degree is directly proportional to the amount of the addition. Second, increase the strength when the cement content remains constant while the water content in concrete can be reduced (i.e. W/C decrease). When the amount of sodium gluconate is 0.1%, the amount of water can be reduced by 10%. Third, reduce cement content and cement content to reduce, W/C ratio remains unchanged. At this point, sodium gluconate is used as a cement reducing agent. In general, the following two aspects are important for the performance of concrete: shrinkage and heat generation.

3. Sodium gluconate can significantly delay the initial and final solidification time of concrete. The dosage of 0.15%, starting time of solidification of logarithm and with addition quantity proportional relationship, namely with addition amount plus one times, and initial solidification time delay to ten times, which makes working time extend from a few hours to a few days and the intensity of undamaged. This is an important advantage especially when the heat and the time to be placed are longer.

Dosage and usage

The recommended dosage is 0.5%-3%, and the optimal dosage is determined by experiment.

Package, Storage and Transportation

Package: Woven fabric bag with plastic liner, net weight 25kg/650kg.

Storage: It should be stored in a dedicated warehouse that is well-ventilated and dry.

Transportation: This product is non-toxic and non-explosive. It can be transported by truck, ship and train.



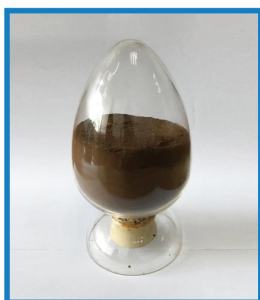
Sodium Lignosulfonate

Product Introduction

Sodium lignosulfonate is a natural polymer with anionic surfactant. It has strong dispersal ability and is suitable for dispersing solids in water medium.

Product Parameters

Index	Sodium Lignosulfonate
Appearance	Brown-yellow powder
PH value	7-10
Dry Matter %	92 min
lignosulfonate %	50 min
Moisture %	6 max
Reducing Sugar Content %	8 max
Water Insoluble matter %	0.6 max
Sodium Sulfate %	5% max
Water reducing rate %	10% min



Usage

Sodium lignosulfonate (sodium lignin) is light yellow (brown) free flowing powder, easy to dissolve in water, stable chemical properties, long-term sealed storage does not decompose. Lignin series products are a kind of surface active agent, can through the methods of modification, processing, production of multiple products, mainly used for resin, rubber, dyes, pesticides, ceramic, concrete, asphalt, feed, water treatment, coal water slurry and concrete, refractory materials, oil field drilling, compound fertilizer, smelting, casting, adhesives. It has been proved that lignin sulfonate is very effective in preventing sandy soil and can also be used as desert fixing agent.

1. Water reducing agent for concrete: it is a powdery low-gas retarding water reducing agent, which is an active substance on the surface of anion. It has adsorption and dispersion effect on cement, and can improve various physical properties of concrete. Reduce more than 13% water, improve the workability of concrete, and can greatly reduce the cement early hydration heat of hydration, can mix into early strength agent, retarder, antifreeze, pumping agent, after with naphthalene series high efficient water reducing agent to liquid admixture made of basic no precipitate is formed.

2. Coal water slurry additive: add this product in the process of preparation of coal water slurry, can increase the mill output, maintain normal power consumption, to reduce the pulping pulping system condition, improved the coal-water slurry concentration, in the process of gasification, oxygen consumption, coal consumption fell, the cold gas efficiency, and can reduce coal water slurry viscosity and reaches a certain stability and liquidity.

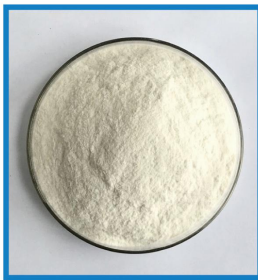
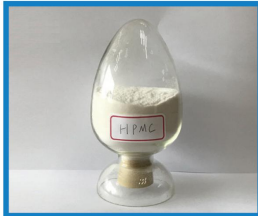
3. Refractory materials and ceramic body strengthening agents.

4. Dye industry and pesticide processing filling agent and dispersant.

5. As a binder for powder and granular materials.

6. Used as dilution dispersant and viscosity reducer in drilling.

Hydroxypropyl Methylcellulose/Hydroxypropyl Methyl Cellulose/Hypromellose/HPMC



Product Introduction

Hydroxypropyl methyl cellulose (HPMC) is a kind of non ionic cellulose mixed ether, which is made of refined cotton as the main raw material and processed by a series of etherification. HPMC is a white or slightly yellow powder, odorless, tasteless, non-toxic. It has the functions of thickening, water holding, dispersing, adhesion and so on. It is widely used in construction, textile, ceramics, coatings, plastics, medicine, washing and other industries.

Product Parameters

Model Item	HPMC-A	HPMC-B	HPMC-C
Appearance	White Powder		
Hydroxypropyl(WT%)	7.0-12.0	4.0-7.5	4.0-12.0
Methoxyl(WT%)	28.0-30.0	27.0-30.0	19.0-24.0
PH Value	4.0-8.0	4.0-8.0	4.0-8.0
Ash Content(%)	5 Max	5 Max	5 Max
Gelling Temperature (°C)	58.0-64.0	62.0-68.0	70.0-90.0
Moisture(%)	5 max	5 max	5 max
Viscosity (mpa.s)	400-200000	400-200000	400-200000
Graininess	100 max	100 max	100 max

Application Scope

1. Construction industry: as a cement mortar water retaining agent, retarder to make mortar with pumping. Use mortar, gypsum, putty powder or other building materials as adhesives to improve the applicability and prolong the operation time. It can be used to paste ceramic tiles, marble, plastic decorations, paste reinforcing agents, and reduce cement consumption. The water retention property of HPMC makes the slurry crack after coating, and enhances the strength after hardening.
2. Ceramic manufacturing: widely used as a binder in the manufacture of ceramic products.
3. Coating industry: in the coating industry as thickening agent, dispersant and stabilizer.
4. Ink printing: as a thickener, dispersant and stabilizer in the printing industry.
5. Plastic: as mould release agent, softener, lubricant, etc.
6. Polyvinyl chloride (PVC): dispersant in the production of PVC, which is the main auxiliary agent for the preparation of PVC by suspension polymerization.
7. Other: This product is also widely used in leather, paper products industry, fruit and vegetable preservation and textile industry.
8. Pharmaceutical industry: coating materials; membrane materials; controlled release polymer materials for slow release preparations; stabilizers; suspending agents; tablet adhesives; tackifier.

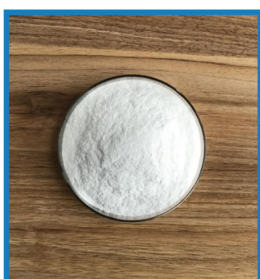
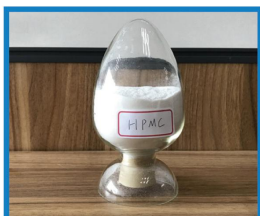
Package, Storage and Transportation

Package: The product is packed in polypropylene woven bag lined with polyethylene inner bag, with a net weight of 25KG per bag.

Storage: Pay attention to sunscreen, rain and moisture, avoid direct sunlight, and seal in dry place.

Transportation: It can be transported by truck, ship and train. During the transportation, we should pay attention to rain prevention and sunscreen.

Hydroxyethyl Cellulose/HEC/ Hydroxyethyl Ether Cellulose/ Hydroxyethyl Cellulose Ether



Product Introduction

Hydroxyethyl cellulose (HEC) is a kind of white or light yellow, odorless, non-toxic, solid, fibrous or powder by alkaline cellulose and epoxy ethane (or chloride ethanol) was prepared by a series of etherification reaction, nonionic soluble cellulose ethers. It can dissolve in cold water and form a transparent, viscous solution.

Technical Data

Model Item	HEC-Powder
Appearance	White Powder
PH Value	6-8.5
Moisture (%)	6 max
Molar Substitution (M.S)	1.8-2.5
Ash Content (%)	5.0 max
Insoluble Matter (%)	0.50 max
Viscosity (mpa.s)	30000、60000、100000

Product property

1. HEC can be dissolved in hot or cold water, high temperature or boiling without precipitation, so that it has a wide range of solubility and viscosity characteristics, as well as non-thermal gelation;
2. Its own non-ionic type can coexist with other water-soluble polymers, surfactants and salts in a wide range, and is an excellent colloidal thickener containing a high concentration of dielectric solution.
3. Water retention capacity is twice higher than that of methyl cellulose, with good flow regulation;
4. The dispersibility of HEC was the worst compared with the recognized methyl cellulose and hydroxypropyl methyl cellulose, but the ability to protect colloid was the strongest.
5. Stable viscosity, anti-mildew and good canning effect of the coating, good leveling performance in construction.

Application field

Because of hydroxyethyl cellulose (HEC) has good thickening, suspension, dispersion, emulsification, glue, thin film deposition, adsorption, surface activity, salt tolerance, protection of water and provide the character such as protective colloid. Hydroxyethyl cellulose (HEC) has been widely used in building materials, synthetic resin, petroleum chemical industry, coating, ceramic industry, medicine, food, textile, agriculture, cosmetics, tobacco, paper, polymer polymerization, etc.

Package, Storage and Transportation

Packing: paper bag lined with polyethylene bag, 25kg/ bag.

Storage: It should be stored in a well-ventilated, dry warehouse.

Transport: It can be transported by truck, ship and train.

Air Entraining Agent

Varieties of products

1. Rosin resin
2. Alkyl benzene sulfonates
3. Fatty alcohol sulfonates

Scope of application

1. It can improve the slump, fluidity and plasticity of concrete.
2. Reducing the water and segregation of concrete and improving the homogeneity of concrete.
3. The thermal diffusion and conductivity of concrete decrease, improve the stability of concrete, enhance the weatherability of field structure, and prolong the life of road concrete.
4. It has greatly improved the anti-freeze, salinity, anti-permeability, sulfate resistance and alkali aggregate reaction performance.
5. Add the mixer with cement, sand and stone and add 1 minute to 2 minutes for stirring.
6. The concrete content of construction engineering should be low, and the quantity of concrete of hydraulic concrete should be high.
7. The content of the concrete with high resistance to freezing and the construction of concrete in winter should be determined according to the requirements of concrete.
8. The air agent can also be used in solution, but must be fully dissolved.
9. The influence of the concrete of the material and the operating environment of the prepared concrete is necessary. Therefore, it is necessary to maintain stability to control the fluctuation of the air content.

Recommended dosage and method of use

1. The content is 0.01% - 0.03%, which is suitable for the anti-seepage anti - frost durability concrete
2. The dosage is 0.6% - 0.7%, which is suitable for pumping concrete construction.



Water-Proofing Agent

Scope of application

1. Suitable for waterproof concrete and waterproof mortar.
2. Suitable for tunnel waterproofing project.
3. Applicable to the basement (garage), water tank, water tower, aqueduct etc.

Main performance characteristics

1. This product is non-combustible and has no rust effect on the reinforcement.
2. Effectively increase the anti-freezing, anti-permeability and water resistance of concrete.
3. Anti-permeability rating can reach more than S15, improve the durability of concrete

Recommended dosage and method of use

1. The recommended dosage is 2.5%- 5%.
2. Mix well with mixing water.
3. Operate according to waterproof concrete construction specifications.

Early Strength Agent

Scope of application

1. Suitable for pipe and normal temperature, low temperature and negative temperature concrete (minimum temperature is not lower than 5 °C) under the condition of the construction of various concrete early strength and antifreeze requirements engineering.
2. Early strength of non-organic ammonia, most of which can be used for steam curing precast concrete components.
3. The early strength of the non-chlorinated components can be used for reinforced concrete and prestressed reinforced concrete.

Main performance characteristics

1. This product is nontoxic, non-flammable, non-corrosive and stable in form.
2. Low alkali content, no alkali-aggregate reaction, no rust on steel bar.
3. No significant influence on coagulation time; Significantly improved early strength and no obvious adverse effects on the later strength: 1d strength could be increased by 25% to 40%, 3d increased by 20% to 40%, 7d increased by 10% to 30%, and 28d strength was higher than that of benchmark concrete.

Recommended dosage and method of use

This product is powder, the general content is 2.5%- 5%. According to the characteristics of engineering materials, proportion, engineering requirements and local climate characteristics determine proportion and dosage. The mixer can be mixed with the cementing material and mixed with water. It is better to add water and stir well.

Plastic Retaining Agent

Scope of application

It is suitable for high temperature season construction, long-distance transportation, super high lift pump, site pouring concrete. Large volume concrete, self-leveling concrete, high strength, high performance concrete and so on.

Main performance characteristics

1. It is applicable to the new concrete mixed with excessive loss and poor flow performance of concrete slump.
2. It can make the new concrete mix good and easy, and can make the concrete get good slump retention.
3. Good plasticity can significantly prolong the transport time of the concrete and the time of retention of the site, and reduce the loss of the warp.
4. In the recombination of pump, the dosage of retarder can be substituted according to the experimental results.
5. Used in naphthalene, aliphatic, amino, polycarboxylic acid and other admixtures.

Recommended dosage and method of use

1. In the recombination of ordinary pump delivery agent, the agent (5-20) is directly added to each ton of liquid pump, which is 0.01%-0.04% of the amount of gelation material. Summer admixture is 0.02%-0.04% of the amount of gelation material and 0.01%-0.02% in spring and autumn.
2. The dosage of other retarded materials can be reduced when the concrete can be improved by adding the plasticizer.

Accelerating Agent

Scope of application

The accelerator is mainly used for the preparation of shotcrete and water stop and water-blocking.

1. Initial support and final lining of underground works such as subway engineering, underground tunnel, water engineering culvert and mine shaft.
2. Repair and reinforcement of buildings, chimneys, etc.
3. Slope and slope works of roads, houses, levees and other foundation works.
4. New type of sheet and folding structure.

Main performance characteristics

1. Coagulation time: 1-5min of initial coagulation and 5-10min of coagulation, suitable for 3% to 5% of the amount of gelation material.
2. Alkali metal content < 1%, non-toxic, tasteless, no stimulation.
3. Fineness: 80 μm hole sieve, sieve residue is less than 10%.
4. The initial strength of the injection concrete was high, and the strength of the compressive strength was 80% to 100%.
5. It has good adhesion and no rust effect on the steel bar. It can improve the anti-seepage label, solidifies fast, and has a thick layer of spray layer. It can reach 130mm, and the wall can reach more than 200mm.

Recommended dosage and method of use

It is recommended that you choose suitable dosage and coagulation time test before using.

Pumping Aid

Scope of application

1. C15-c45 grade high performance concrete.
2. Other kinds of commodities, current watering, precast concrete.

Main performance characteristics

1. It has good water reducing performance, 12%-35%, water reducing rate can improve liquid mixture and concrete slump can reach 15-22 cm, adhesiveness, good working performance is stable and suitable for goods transportation and pumping construction of concrete.
2. This product is non-toxic, non-combustible, stable in form and no rust effect on steel bar.
3. Increase the compactness of concrete, reduce shrinkage and creep, improve the durability of concrete and prolong the life of concrete.
4. After mixing this product, the concrete bleeding is significantly reduced, no segregation, moderate air content, good workability and good performance of gram pump.

Recommended dosage and method of use

1. The dosage is generally 1.5% to 3% of the gelation material, and the quantity of the high strength concrete shall be 3% to 5%, and the specific amount shall be determined through the experiment.
2. Mix the mixing water with the mixer until the specified time.

Antifreezing Agent

Scope of application

1. It is suitable for the current pouring, precast, prestressing reinforced concrete and pump concrete for winter construction.
2. The construction of winter construction requires accelerated construction progress, high strength, high anti-permeability, high durability concrete.
3. Suitable for c15-c60 concrete.

Main performance characteristics

1. This product is stable in form and has no rust effect on the steel bar, and contains 2% to 3% gas, which is conducive to the construction of concrete.
2. It can effectively reduce the freezing point of the concrete, so that the concrete can reach the frozen critical intensity as soon as possible, which can effectively prevent the freezing effect.
3. Low alkali content, no alkali aggregate reaction, no ammonia anti-freeze component, no pollution to residents' homes.
4. It has a strong dispersion effect on cement and obviously improves mixing and ease of mixing.
5. Save cement and reduce the amount of cement by 10% to 20% while maintaining the same strength.
6. Increase the compactness of concrete, reduce shrinkage and creep, improve the durability of concrete and prolong the life of concrete.

Recommended dosage and method of use

1. The recommended amount of powder is 3%-6%.
2. According to the requirements of the project, adjust the amount of mixing after experiment.

Plumping Agent For Concrete /Concrete Expansion Agent

Scope of application

1. Roofing waterproof, underground water-proof, storage tank pool, base post-watering seam, concrete member reinforcement, waterproof and leakage.
2. Applicable to pre-filled concrete and reinforced concrete, prestressed concrete, etc.
3. Applicable to the self-stressing reinforced concrete pressure tube used at normal temperature.
4. Suitable for the base grouting of mechanical equipment, pouring of beam and column joints, filling of pipe joints and water proofing and leakage.

Main performance characteristics

1. This product is stable, non-combustible and chloride free, and has no rust effect on steel bar.
2. Low alkalinity and total alkalinity of 0.4% to 0.6%, will not result in alkali - aggregate reaction.
3. When the product is mixed with 8-10% of the product, and the reinforcement rate is 0.2%-1%, the limiting expansion rate is $2-4 \times 10^{-4}$, which generates 0.2-0.7Mpa self-stress in the concrete, which has little impact on the strength. With the increase of content, the expansion rate of concrete increases, and the intensity decreases slightly.
4. The loss of concrete slump is slightly faster and the coagulation time is shorter, but it does not affect the construction.
5. It does not affect the strength of 28 days, and the intensity of the concrete will continue to grow at the later stage. The strength of concrete is 10% to 15% higher than the free intensity.
6. This product is non-toxic and pollution-free and belongs to environment-friendly products.

Recommended dosage and method of use

This product is powder, the dosage is generally 8%-12%, the optimal dosage is 10%, the low admixture quantity is 6%-8%, and the same amount replaces the cement, which is the internal doping method. According to the user material (cement, sand, stone) characteristics and proportion, after the experiment, adjust the amount of quantity, has reached the purpose of the adaptation. The weighing error is less than 0.5%, and the mixer is put into a blender with other materials for 60 seconds.





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