HUAHAIFI
华海菲菲

水泥产业链外加剂专业设计制造商

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企业介绍

CompanyProfile



华海菲菲(河北)混凝土外加剂有限公司，集水泥助磨剂，水泥原料， 干粉砂浆剂，湿拌砂浆剂，混凝土外加剂羟丙基甲基纤维素、可再分散性乳胶粉、羟丙基淀粉醚、聚乙烯 醇粉末、减水剂聚醚单体研发，生产，本集团注资多个化工建领城，成为销售于一体的大型化工高新建材 公司。公司多年来一直致力于高分子化工，精细化工等，化工领域的高新技术研发与创新，现有工程师17 名，技术顾问30名，并且拥有完整的质量监控设备。公司通过IS09001:2015 质量管理体系认证，质量 认证等多种荣誉称号。

公司通过引进国外先进技术，并与国内外多家研究进行技术合作后，产品在各大领域取得重大突破，产品出口美国、德国、意大利、新西兰、越南、缅甸等多个国家，国内产品远销全国各地，给水泥厂家带来了客观的经济利益，能满足不同水泥厂家增产，增强及中和要求。为建筑，高速铁路，水利工程带来了巨大的贡献，公司具备完善的售后服务，公司具备运输车30部，运输范围全国各地。

公司以"用心服务，客户至上引导未来"为经营理念，以诚信面对所有的客户，以产品质量求生存，已完善服务谋发展，展望未来，公司领导携全体员工愿与社会各界同仁进行真诚互信，持久深入合作，为我国乃至全世界环保节能减排贡献自己的一份力量。

Huahai Feifei(Hebei)Concrete Admixture Co.,Ltd.,is a leading provider of high performance concrete admixtures.We specialize in developing and manufacturing innovative solutions for a wide range of construction applications.

Our Products

Huahai Feifei offers a comprehensive portfolio of concrete admixtures,including:

□Cement grinding aids

□Cement raw materials

□Dry mix mortar admixtures

OWet-mix mortar admixtures

]Concrete admixtures (hydroxypropyl methylcel lulose,redi spersible latex powder,hydroxypropyl starch ether,polyvinyl alcohol powder,water reducer PEO)

0ur Expertise

With over 17 engineers and 30 technical consultants,Huahai Feifei is dedicated to continuous innovation and qual ity improvement.Our state-of-the-art facilities and rigorous testing procedures ensure that our products meet the highest standards of performance and reliability.

Huahai Feifei:Building a sustainable future,together.

We prioritize custamer satisfactian and long-term partnerships,leading the construction industry towards a greener future.

Partner with Huahai Feifei for sustainable excellence.



HUAHAIFI

总经理致辞

General
Manager speech



HUAHAIFI
华海菲菲

一个名字，一个概念，一个品牌 —“华海菲菲”，以其强大的技术开发力量和制造技术而驰誉世界。我们系列化的产品，能满足不同需求的消费者。“华海菲菲”是属于我们大家的品牌，是给我们带来利益的品牌。

华海菲菲始终坚持：以德治企，以人为本，用优秀的人品制造优秀的产品，以德为企业的重要竞争力，在严格保证产品品质的基础上，力求创新发展。我们深知发展的不易，责任在心，从不敢忘。我们将自强不息，当今瞬息万变的国际，国内市场上继续努力满足广大顾客的需求。

展望未来，放眼现在。我们怀着一颗敬畏的心做事。未来，我们将继续秉承“诚信、创新、正德”的理念，赢得您一路相伴！

One name, one concept, one brand—HUAHAI FEIFEI, is famous in the world for its powerful technology force and manufacturing process. Our series of products can meet different requirements from the clients, HUAHAI FEIFEI belonging to all of us, can bring benefit to everyone. Adhering to governing enterprise with virtue, people-oriented, we manufacture excellent products with excellent quality.

Taking morality as important competitiveness of the enterprise, we attach great importance to innovation on the basis of strictly ensuring the product quality. We deeply know development is not easy, and we will constantly strive to meet the needs of our customers in this rapidly changing international and domestic markets.

Looking forward to the future and focusing on the present, we act with great piety. In the future, we will continue to uphold the concept of integrity, innovation, honesty, and win your trust all the way!



HUAHAIFI

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自然衡水·衡水湖

Natural Hengshui

衡水湖自然保护湿地位于河北省衡水市境内，包括西湖、东湖和冀州小湖3个湖区，总面积为18787公顷，蓄水能力为1.88亿立方米，是南水北调中线工程(丹江口-北京)的必经之路。

千年的尘封对衡水湖的保护来说也许是件幸事。迄今为止，衡水湖是华北平原上第一个内陆淡水湖省级自然保护区，同时也是华北平原唯一保持沼泽、水域、滩涂、草甸和森林等完整湿地生态系统的自然保护区。

Hengshui Lake Nature Conservation Wetland is located in Hengshui City, Hebei Province, including West Lake , East Lake and Jizhou small Lake, with a total area of 18787 hectares and a water storage capacity of 188 million cubic meters. It is the only way for the middle route of the South-to-North Water transfer Project (Danjiangkou-Beijing).

Thousands of years of dust may be a blessing for the protection of Hengshui Lake. So far, Hengshui Lake is the first inland freshwater lake provincial nature reserve in North China Plain, and it is also the only nature reserve in North China Plain that maintains complete wetland ecosystems such as swamps, waters, tidal flats, meadows and forests.

HUAHAIFI
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人文衡水·大儒之乡

Humanistic Hengshui



历史上，衡水为中华文化的积淀，为中国历史的走向，为中华民族的兴盛，作出了重要、特殊、全局性的贡献。衡水市的冀州区历史悠久，上古时期，黄帝、大禹划野分九州，冀州为首，又称金鸡城，意喻金鸡报晓，闻鸡起舞，希望之地。冀州历史上曾做过省级治所，辖管河北地域。

Historically, Hengshui has made important ,special and overall contribu-tions to the accumulation of Chinese culture, the trend of the Chinese history and the prosperity of the Chinese nation. Jizhou District of Hengshui City has a long history.In ancient times, Huangdi and Dayu were divided into Kyushu and Jizhou, also known as Jinjicheng, which dawns Golden Rooster announcing dawn, hearing chicken dancing, and the place of hope,In the history of Jizhou ,it has been a provincial government,which has jurisdiction over the Hebei region.

京畿之地河北省以其冀望之意简称“冀”，这也寄托了中华之希冀，四夷向往，八方归心；毛苌一生注释、传授《诗经》，使《诗经》的地位得以确立并流传；窦漪房作为皇后、皇太后、太皇太后，辅佐西汉文景武三帝，上承高祖伟业，下启武帝雄风，成就“文景之治”，把汉王朝推向强盛的高峰；西汉思想家、哲学家、政治家、教育家董仲舒学而不厌“三年不窥园”著书立说，应汉武帝诏征治国方略，撰著《举贤良对策》提出“罢黜百家、独尊儒术”思想，确立了儒家学说在两千年中国封建社会的主导地位，辞官回乡后或走出家门广招生徒、设坛教授、秉烛讲学、诲人不倦、弟子相传，其中出色通经者以百计，大史学家司马迁也曾师从董仲舒，西汉群贤毕集、人才济济，皆自董仲舒发倡议之，使西汉再现汉武雄风。

衡水，冀东南的一方热土，这块神奇、充满希望的地方，钟灵毓秀，水木清华，人杰地灵，物华天宝，遍地生金，物产丰阜。新中国建立后，尤其是改革开放以来，衡水继续以自己特有的人文自然资源，为国家富强和民族复兴做出特有的奉献。



Hebei Province, the place of the capital, is referred to as"Ji"with the meaning of its expectation, which also places the hope of China, Siyi yearning and returning to the heart in all directions. Mao Kui annotated and taught the Book of songs all his life, so that the status of the Book of songs was established and spread. Dou Yifang, as an empress, empress dowager and empress dowager , assisted the three emperors of the Western Han Dynasty, inherited the great cause of Emperor Gaozu,opened the magnificent style of Emperor Wu, and achieved the rule of Wenjing, which pushed the Han Dynasty to the peak of strength and prosperity.Dong Zhongshu,a thinker,philosopher,politician and educator in the Western Han Dynasty, was never tired of"three years without peeping Garden"In response to the imperial strategy of Emperor Wu of the Han Dynasty, he put forward the idea of"removing a hundred schools of thought and respecting Confucianism only ". It established the dominant position of Confucianism in China's feudal society in 2000. After resigning officials, he or he went out to his hometown to recruit students, set up altars, give lectures by candles,teach tirelessly, and passed down from his disciples. Among them, there are hundreds of excellent scriptures, and the great historian Sima Qian also studied under Dong Zhongshu, a collection of sages and talents in the Western Han Dynasty, all of which were advocated by Dong Zhongshu to reproduce the magnificent style of Han Dynasty in the Western Han Dynasty.

Hengshui, a hot land in southeastern Hebei, this magical and hopeful place, Zhong Ling Yuxiu, Muki Tsinghua, outstanding people, Wuhua Tianbao, gold everywhere, products Fengfu. After the founding of New China, especially since the reform and opening up, Hengshui continues to make unique contributions to the prosperity and rejuvenation of the country with its own unique human and natural resources.

HUAHAIFI
华海菲菲

体育衡水·国际马拉松

Sports Hengshui



2012年4月7日，为迎接衡水湖首届国际马拉松比赛，共青团衡水市委、衡水市体育局、桃城区委、区政府联合主办“格林杯”半程马拉松比赛，来自各行各业的近300名马拉松爱好者们在衡水湖湿地展开角逐。

赛事于2012年首次举办即被中国田径协会评为银牌赛事，第二年开始到2016年，连续四届被评为中国田径协会的金牌赛事,2017年被国际田联授予“铜标赛事”。2017年赛事的目标是保证完成“铜标赛事”，争创国际田联的“银标赛事”。

2018年，衡水湖国际马拉松赛成为新晋国际田联“银标赛事”。

2019年9月22日上午7点30分,2019衡水湖国际马拉松赛起跑，来自中国、美国、英国、德国、日本等20多个国家和地区以及国内33个省市自治区、港澳台地区的20000余名跑者齐聚衡水湖畔。

On April 7, 2012, in order to welcome the first international marathon of Hengshui Lake, the Communist Youth League Hengshui Municipal Party Committee, Hengshui Sports Bureau, Taocheng District Party Committee and district government jointly sponsored the "Green Cup" half marathon. Nearly 300 marathon enthusiasts from various industries competed in the Hengshui Lake wetland

The event was awarded the silver medal by the China track and Field Association for the first time in 2012. From the second year to 2016, it was awarded four consecutive gold medal events of the China track and Field Association ,and was awarded the"bronze medalevent" by the IAAF in 2017. The goal of the 2017 event is to ensure the completion of the"bronze standard event" and strive to create the"silver standard event" of the IAAF.

In 2018, the Hengshui Lake International Marathon became the new IAAF silver standard event.

At 07: 30 on September 22, 2019, the 2019 Hengshui Lake Intenational Marathon began. More than 20000 runners from more than 20 countries and regions, including China,the United States, Britain, Germany and Japan, as well as 33 provinces, municipalities and autonomous regions in China, Hong Kong, Macao and Taiwan gathered on the banks of Hengshui Lake.

企业文化

Enterprise

culture



核心价值观

可持续发展的出发点，简单来说就是要保证我们及世世代代拥有更美好的生活。

管理思想

坚持员工利益第一是企业的第一出发点。坚持模式不断创新是企业的第一追求。坚持业绩提升是华海菲菲奖励、任用、配股的第一条件。坚持以目标为导向是华海菲菲的第一要求。坚诗雷厉风行马上办事是华海菲菲的第一作风。

技术理念

坚持原始创新、消化创新和集成创新，开放合作的发展自身技术力量，使企业技术实力持续保持领先，做科技驱动型企业。

工作标准

对自己要严格自律，不要依赖他律；要证明自己，不要说明自己；要解决问题，不要解释问题。

对工作只要深刻，不怕“片面”；重要效率，不惜“独断”；只要结果，不要“过程”。

对追求体验极限，挑战一切可能；体验高峰，追求真正成果。

CORE VALUE

The point of sustainability is simply to ensure a better life for us and for generations to come

MANAGEMENT THOUGHT

Adhering to taking employees' interests as the first starting point, taking innovation as the first pursuit of enterprise, we insist on performance promotion as the first condition for awarding. appointment and allotment of HUAHAI FEIFEI, insist on being goal oriented as the first requirement, and take immediate action as our style.

TECHNICAL CONCEPT

Adhering to original innovation, digestion innovation, and integration innovation, we develop our own technical force in a open cooperative way, so that the technical strength can continue to stay ahead, to becom technology-driven enterprise.

WORKING STANDARD

Being self-discipline but not relying on regulation;

To prove yourself but not explain yourself;

To solve problem but not explain problem.

Experience the limits and challenge the possibilities.

HUAHAIFI

华海菲菲

华海菲菲誓词

我是华海菲菲主人，自我加压拼命干
不比苦劳比贡献，不看过程看结果。
实现目标我争先，我一定能够争先

五个坚持

坚持以目标为导向的工作要求
坚持雷厉风行、令行禁止的工作作风
坚持公司利益高于一切的行为标准
坚持以目标为导向是华海菲菲的第一要求
坚持雷厉风行马上办事是华海菲菲的第一作风

OUR OATH.

I am the master of Huahai Feifei, working hard under pressure;
No more contribution than hard work, we pay more attention to the result;
I will be the first to achieve my goal.

FIVE PRINCIPLES.

Adhering to goal-oriented work requirements;
Adhering to immediate action working style;
Adhering to company's interests above all standards of behavior;
Adhering to goal-oriented as the first requirement;
Adhering to immediate action as our first style;

资质荣耀 Qualification Honor

• 优质品牌产品	High-quality brand products
• 优秀企业	Excellent Enterprise
• AAA级诚信企业	AAA Credit Enterprise
• 中国著名品牌	China Famous Brand
• AAA级标准化良好行为企业	AAA standardized good behavior enterprise
• 进出口资质证书	Import and export certificate
• 质量检测证书	Quality test certificate
• 营业执照	Business license





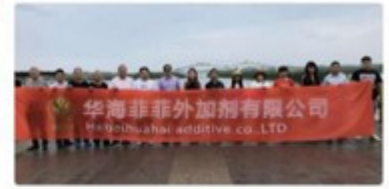




精英团队 | Elite Team

在创新中持续超越

世界屋脊——珠穆拉玛峰，海拔8848米，在无数攀登者的心目中，这是一个渴望攀登的高度，而支持这一荣耀的事海拔七千米以上的喜马拉雅山脉，同样，一个企业的成功离不来优秀的团队，而一个团队的成功，必将成就一个巅峰的企业。















2020年，“新冠”疫情期间，华海菲菲领导人为一线人员送去消毒液及纯净水。

爱心传递温暖 公益回馈社会

长期以来，华海菲菲积极倡导可持续发展。除了开发可持续创新产品、改善运营的环境状况之外，还通过各种企业社会责任活动来提高人们生活质量、关爱地球环境。正如华海菲菲总经理李贺所说：“可持续发展的出发点，简单来说就是要保证我们及世世代代拥有更美好的生活。这是华海菲菲的核心价值观，同时在自身发展的同时，不忘初心，用自己的一份力量回馈社会上需要帮助的人。

Love delivers warmth, giving back to the society For a long time, Huahai Feifei actively advocates sustainable development, in addition to developing sustainable and innovative products and improving the environmental conditions of our operations, we also promote quality of life and care for the planet through a variety of corporate social responsibility activities, just as He li, the general manager saying that the point of sustainability is simply to ensure a better life for us and for generations to come. This is the core value of Huahai Feifei, we do not forget the original intention at the same time in our own development, and get back to the community in need of help with our own strength.











企业愿景 Corporation Vision

每一天，我们都致力于创造更美好的未来我们的优质产品和服务，使人享受更加完美生活我们不断创新，在将公司规模扩大一倍的同时减少我们对环境的不利影响。

我们深信，我们能够带领我们旗下的品牌改善人们的生活，同时履行我们的社会责任。

Every day, we commit ourselves to create a better future;

Our high-quality products and service enable people to enjoy a more perfect life;

We are constantly innovating to double the size of the company while reducing our negative impact on environment;

We deeply believe that we can lead our brands to improve people' s life while fulfilling our social responsibility.

01 聚醚单体 HSEP-300
Polyether Monomer EPEG-3000

产品名称：聚醚单体EPEG-3000（聚羧酸减水剂大单体EPEG-3000）

化学名称：乙二醇单乙烯基聚氧乙烯醚

化学结构：$CH_2CHOCH_2CH_2O(CH_2CH_2O)_nH$

产品性能：本产品采用国际先进的外循环喷雾乙（丙）氧基加成装置生产，生产线采用DCS控制系统，产品具有分子量分布均匀、双键保留率高的特点。该产品不同于HPEG和TPEG聚羧酸减水剂大单体，EPGE产品分子结构中的不饱和双键直接与一个氧原子相连接，形成一组C-O键的分子结构，使双键电子云分布发生偏移，从而改善了大单体中不饱和双键的电荷环境，使得大单体中双键的反应活性比HPEG和TPEG的大得多，更易于进行聚合反应，同时进一步减少了酸醚侧链摆动的空间阻力，提高了聚醚侧链的包裹性和缠绕性，合成出的聚羧酸减水剂具有更高的适应性，尤其对于砂石料品质差、含泥量高的情况效果显著。

包装规格：25Kg编织袋，液体根据用户要求定做。

贮存运输：本系列产品无毒、不易燃，可按一般化学品运输规定办理。贮存于干燥、阴凉、通风处，运输过程中避免阳光直射、雨淋，贮运温度不宜高于40℃。

产品保质期：在规定的贮运条件下，保质期半年。

质量指标/Specification				
指标Index 型号Type	产品外观（25℃） Appearance(25℃)	羟值mgKOH/g Hydroxyl Value (mgKOH/g)	不饱和度mmol/g≥ Degree Of Unsaturation (mmol/g)	PH值1%水溶液 PH(1% water solution)
HSEP-300	白色至微黄色片状 White to yellowish flake	17±3	0.25	5.5-7.5

Product Name: Polyether Monomer EPEG-3000 (Polycarboxylic Acid Water Reducing Agent Monomer EPEG-3000)

Chemical name: EPEG ethylene glycol monovinyl polyoxyethylene ether

Formula: $CH_2CHOCH_2CH_2O\ (CH_2CH_2O)_nH$

Product Property:

This product is produced by the internationally advanced external circulation spray ethylene (propylene) oxyaddition device, and the production line adopts DCS control system. The product has the characteristics of uniform molecular weight distribution and high double bond retention rate. This product is different from HPEG and TPEG polycarboxylic acid water reducing agent macromers. The unsaturated double bond in the molecular structure of EPGE products is directly connected to an oxygen atom, forming a set of C-O bonds in the molecular structure, causing the electron cloud distribution of the double bond to shift, thereby improving the charge environment of the unsaturated double bond in the macromonomer, making the reaction activity of the double bond in the macromonomer much higher than that of HPEG and TPEG, making it easier to carry out polymerization reactions, At the same time, it further reduces the spatial resistance of the swing of the acid ether side chain, improves the encapsulation and entanglement of the polyether side chain, and the synthesized polycarboxylic acid water reducing agent has higher adaptability, especially for situations with poor quality and high mud content of sand and gravel materials, with significant effects.

Package: 25kg/ bag

Storage and transportation: This series of products are non-toxic and non flammable, and can be handled according to general chemical transportation regulations. Store in a dry, cool, and ventilated place, avoid direct sunlight and rain during transportation, and the storage and transportation temperature should not exceed 40 °C.

Shelf life: Under specified storage and transportation conditions, the shelf life is 6 months.

02 保塌减水剂（改）

产品名称: ZJ-PCE102（保坍型）

产品概述: ZJ-PCE102 是一种具有缓释效果的片状聚羧酸高性能减水剂产品

主要技术性能

1.对水泥的初始分散能力一般，但具有持续的坍落度保持能力，保坍时间可达 2~4h。能够有效解决长距离运输和高温条件下混凝土坍落度损失大的难题；

2.极佳的和易性，有利于提高混凝土的泵浆性能；

3.尤其适用于含粉含泥量高的材料，可作为功能型产品提高其他减水剂产品的抗泥性能；

4.极低的碱含量和氯离子含量，对钢筋无锈蚀作用。

通用范围

适用于预拌混凝土、泵送混凝土、自密实混凝土、预制混凝土等各种高性能混凝土，特别适用于大体积混凝土、水工混凝土

使用方法与注意事项

本产品推荐与减水型片状聚羧酸减水剂复合使用，折固掺量为胶凝材料总量的 0.1%~0.5%，必要时可以加入少量的调凝剂调节凝结时间。请根据实际使用条件进行必要的混凝土试验来确定具体使用方案。本产品不得与萘系减水剂复合使用。与其他外加剂复配使用时，必须先进行试验。

外观 白色至淡黄色片状物

固含量/% 97.0±1.0

pH 值（40%水溶液） 4.0±1.0

Cl-含量（按折固含量计）/% ≤0.1

（注：该片剂产品具有从白色至淡黄色甚至黄色的特征色，但这种颜色波动对其性能没有任何影响。）

包装与贮存

1. 本产品采用复合包装袋包装，25kg/袋，或根据客户要求确定。

2. 建议 2℃~35℃贮存于干燥、通风处，避免阳光直射和雨淋，应存放于专用仓库或固定场所内，避免与其他类型外加剂混合存放。

3. 本产品保质期为 6 个月，超过保质期需通过试验合格后方可使用。

Slump-Retaining Water Reducer (Revised)

Product Name: ZJ-PCE102 (Slump-Retaining Type)

Product Overview

ZJ-PCE102 is a flake-type polycarboxylate high-performance water reducing agent with slow-release effect.

Main Technical Properties

It presents moderate initial dispersion capacity on cement yet sustainable slump retention performance, with slump retention duration reaching 2~4 hours. It effectively solves the severe slump loss of concrete caused by long-distance transportation and high-temperature environments.

It delivers excellent workability and improves the mortar coating performance of concrete.

It is especially suitable for raw materials with high powder and mud content. As a functional additive, it can enhance the mud resistance of other water reducers.

It contains extremely low alkali and chloride ion content and causes no corrosion to steel reinforcement.

Application Scope

It applies to various high-performance concrete including ready-mixed concrete, pumped concrete, self-compacting concrete and precast concrete. It is particularly suitable for mass concrete and hydraulic concrete.

Usage & Precautions

This product is recommended to be compounded with flake-type water-reducing polycarboxylate water reducers. Its solid equivalent dosage accounts for 0.1%~0.5% of the total mass of cementitious materials. A small amount of set modifier may be added to adjust setting time if necessary. Specific mixing formula shall be determined through concrete tests according to actual service conditions. This product shall not be compounded with naphthalene-based water reducers. Compatibility tests must be carried out in advance when blending with other admixtures.

Physical & Chemical Indicators

表格

Item	Technical Index
Appearance	White to pale yellow flakes
Solid Content / %	97.0±1.0
pH Value (40% Aqueous Solution)	4.0±1.0
Chloride Ion Content (Calculated by solid equivalent) / %	≤0.1

Note: The flake product ranges in color from white to pale yellow and even yellow, and such color fluctuation has no adverse impact on its performance.

Packaging & Storage

The product is packed in composite packaging bags of 25kg per bag; customized packaging specifications are available upon customer requests.

Store at 2℃~35℃ in a dry and ventilated place, avoiding direct sunlight and rain exposure. Keep it in a dedicated warehouse or fixed storage area and separate from other types of concrete admixtures.

The shelf life of this product is 6 months. Products exceeding the shelf life can only be used after passing qualification tests.

03 聚羧酸高性能减水剂(片剂)

产品名称:ZJ-PCE101（减水型）

产品概述:ZJ-PCE101 是一种具有高减水率的片状聚羧酸高性能减水剂产品

主要技术性能

1、极高的减水率，减水率可达 45%以上；

2、显著改善混凝土拌合物的施工性能，使混凝土具备优异的流动性、可泵性和抗离析性；

3、显著提高混凝土硬化之后的力学性能和耐久性；

4、与各种水泥和掺合料的适应性好，与含粉含泥量高的材料相容性好；

5、极低的碱含量和氯离子含量，对钢筋无锈蚀作用。

通用范围

适用于预拌混凝土、泵送混凝土、自密实混凝土等各种高性能混凝土，特别适用于高强预制混凝土、超高性能混凝土。

使用方法与注意事项

本产品可单独使用或与其他类型片状聚羧酸减水剂复合使用，折固掺量为胶凝材料总量的0.1%~0.5%，必要时

可以加入少量的调凝剂调节凝结时间。请根据实际使用条件进行必要的混凝土试验来确定具体使用方案。

本产品不得与萘系减水剂复合使用。与其他外加剂复配使用时，必须先进行试验。

包装与贮存

1.本产品采用复合包装袋包装，25kg/袋，或根据客户要求确定。

2.建议2℃~35℃贮存于干燥、通风处，避免阳光直射和雨淋，应存放于专用仓库或固定场所内，避免与其他类型外加剂混合存放。

3.本产品保质期为6个月，超过保质期需通过试验合格后方可使用。

03 Polycarboxylate High-Performance Water Reducer (Flake Type)

Product Name: ZJ-PCE101 (Water-Reducing Type)

Product Overview

ZJ-PCE101 is a flake polycarboxylate high-performance water reducer featuring a high water reduction rate.

Main Technical Properties

Ultra-high water reduction rate, exceeding 45%;

Remarkably improves the workability of fresh concrete mixtures, endowing concrete with outstanding fluidity, pumpability and segregation resistance;

Significantly enhances the mechanical properties and durability of hardened concrete;

Boasts good adaptability to various cements and mineral admixtures, as well as favorable compatibility with raw materials containing high powder and mud content;

Extremely low alkali and chloride ion content, causing no corrosion to steel reinforcement

Application Scope

It is applicable to various high-performance concrete such as ready-mixed concrete, pumped concrete and self-compacting concrete. It is especially suitable for high-strength precast concrete and ultra-high performance concrete (UHPC).

Usage & Precautions

This product can be used alone or compounded with other types of flake polycarboxylate water reducers. Its solid equivalent dosage accounts for 0.1%~0.5% of the total mass of cementitious materials. A small amount of set modifier can be added to adjust the setting time when necessary. Specific application formulas shall be confirmed through concrete tests based on actual working conditions.

This product must not be blended with naphthalene-based water reducers. Compatibility tests shall be conducted in advance before compounding with other concrete admixtures.

Packaging & Storage

The product is packed in composite bags of 25 kg per bag; customized packaging specifications are available upon customers' requests.

Store at 2℃~35℃ in dry and ventilated areas, away from direct sunlight and rain. Keep it in a dedicated warehouse or fixed storage zone and avoid mixing it with other kinds of admixtures.

The shelf life of this product is 6 months. Any product past its shelf life can only be put into use after passing qualification tests.

04

聚醚单体 HSHP-300
Polyether Monomer HPEG-3000

产品名称： 聚醚单体HPEG-3000(聚羧酸减水剂大单体HPEG-3000)

化学名称： 甲基烯丙基聚氧乙烯醚

化学结构： $CH_2C(CH_3)CH_2O(CH_2CH_2O)_nH$

产品性能： 本系列产品采用国际先进的外循环喷雾乙(丙)氧基加成装置，并采用先进的催化技术，双键保留率高，质量稳定，且具有分子量分布窄，杂质含量低，聚合反应活性高的特点。本产品适用于合成对减水率有更高要求的减水剂母液，使用该产品生产的聚羧酸减水剂母液，具有高效颗粒分散性能和保持能力，具有减水率高、保塑性好等特点。本产品外观为片状，水溶性好，水溶液性质稳定，可配成各种浓度的水溶液，使用更方便。

包装规格： 25kg编织袋，液体根据用户要求定做。

贮存运输： 本系列产品无毒、不易燃，可按一般化学品运输规定办理。贮存于干燥、阴凉、通风处，运输过程中避免阳光直射，雨淋，贮运温度不宜高于40℃。

产品保质期： 在规定的贮运条件下，保质期半年。

质量指标/Specification

指标Indes 型号Type	产品外观（25℃） Appearance(25℃)	羟值mgKOH/g Hydroxyl Value (mgKOH/g)	不饱和度mmol/g≥ Degree Of Unsaturation (mmol/g)	PH值1%水溶液 PH(1% water solution)
HSHP-300	白色至微黄色片状 White to yellowish flake	17±3	0.25	5.5-7.5

Product name: Polyether Monomer HPEG-3000, Polycarboxylate Superplasticizer Monomer HPEG-3000

Chemical name: HPEG-Methyl Allyl Polyoxyethylene Ether

Formula: $CH_2C(CH_3)CH_2O(CH_2CH_2O)_nH$

Product Property:

Based brought advanced technology facilities with outer circulation atomizing technology from abroad, also full- automatic production lines and the latest catalytic polymerization process, with high retaining ratio of double bonds and stable quality. The molecules of our products permutes very centralized with low impurity content and high polymerization activity.

This product is suitable for the synthesis of mother liquor which has higher requirement on the water reducing ratio.Using the product in the production of polycarboxylic acid mother liquor, the water reducing agent with high efficient particle dispersion performance and keeping ability, has high water reducing rate and good plasticity.

The flaky product is soluble and the water solution is very stable, could be used to formulate different concentration water solution very conveniently.

Package: 25kg/ bag

Storage and transportation: The series of products are innoxious and nonflammable, could be handled as general chemical when for transport.

Stored in the dry, clean, cool and ventilated warehouse with max 40℃. When transport, the bag should be sealed, the shock,sunshine, rain, heat and fire source should be avoided.

Shelf life: 6 months with noted storage and transportation ways.

05

聚醚单体 HSTP-300
Polyether Monomer TPEG-3000

产品名称：聚醚单体TPEG-3000(聚羧酸减水剂大单体TPEG-3000)

化学名称：异戊烯醇聚氧乙烯醚

化学结构：$(CH3)_2CCHCH_2O(CH_2CH_2O)_nH$

产品性能：本产品采用国际先进的外循环喷雾乙(丙)氧基加成装置，并采用全自动生产线和先进的催化聚合生产工艺，分子分布窄。本产品适用于合成对保坍性有更高要求的减水剂母液，使用该产品生产的聚羧酸减水剂母液，一般情况下，不需要再复配保坍剂即可使混凝土达到良好的工作性能。本产品外观为片状，水溶性好，水溶液性质稳定，可配成各种浓度的水溶液，使用更方便。

包装规格：25kg编织袋，液体根据用户要求定做。

贮存运输：本系列产品无毒、不易燃，可按一般化学品运输规定办理。贮存于干燥、阴凉、通风处，运输过程中避免阳光直射、雨淋，贮运温度不宜高于40℃。

产品保质期：在规定的贮运条件下，保质期半年。

质量指标/Specification

指标Index 型号Type	产品外观（25℃） Appearance(25℃)	羟值mgKOH/g Hydroxyl Value (mgKOH/g)	不饱和度mmol/g≥ Degree Of Unsaturation (mmol/g)	PH值1%水溶液 PH(1% water solution)
HSTP-300	白色至微黄色片状 White to yellowish flake	17±3	0.25	5.5-7.5

Product name: Polyether Monomer TPEG-3000,Polycarboxylate Superplasticizer Monomer TPEG-3000

Chemicalname: TPEG-Prenyl Alcohol Polyoxyethylene Ether

Formula: $(CH3)_2CCHCH_2O(CH_2CH_2O)_nH$

Product Property:

Based brought advanced technology facilties with outer circulation atomizing technology from abroad, also full automatic production lines and the latest catalytic polymerization process, the molecules of our products permutes very centralized.

This product is suitable for the synthesis of mother liquor which has higher requirement on the slump retention. In general, by using the product in the production of poly carboxylic acid water reducing agent mother liquor, do not need further compound with slumping agent, can make the concrete to achieve good performance.

The flaky product is soluble and the water solution is very stable, could be used to formulate different conentration solution very conveniently.

Package: 25kg/ bag.

Storage and transportation: The series of products are innoxious and nonflammable, could be handled as general chemical when for transport.

Stored in the dry, clean, cool and ventilated warehouse with max 40℃ , When transport, the bag should be sealed, the shock, sunshine, rain, heat and fire source should be avoided.

Shelf life: 6 months with noted storage and transportation ways.

06

聚羧酸减水剂母液HSHPC
Polycarboxylate superplasticizer (Based HPEG)

产品名称： 聚羧酸减水剂母液HSHPC

产品概述： 本产品是高减水型聚羧酸高性能减水剂母液，具有极高的减水率同时又具有较高的保坍性能，能极大改善新拌混凝土的塑性指标，提高泵送及施工性。本产品通过新型引发体系制备，反应过程中无需加热，节能环保，对合成用水无特殊要求，特别适用于无加热条件、无去离子水生产设备的情况，具有不可忽视的经济意义和社会意义。

主要技术性能：

1、高减水、中保坍、掺量低，初始流动度好，经时坍落度损失小。
2、对硬化混凝土有明显的增强效果，后期强度仍可见增长。
3、出色的和易性，不离析、不泌水，可泵送性好，对混凝土强度增长及结构发展极其有利。
4、适应多种水泥及掺合料，特别适用于掺加粉煤灰、矿粉等活性掺和料配制的高性能砼。
5、无氯、低碱，对钢筋无锈蚀。
6、本产品无毒、无害、对环境友好。

适用范围：

1、适用于对减水性要求较高的混凝土，如大体积、远距离输送及泵送混凝土。
2、适用于各种水利、海工、港口、交通、电力等对混凝土性能要求较高的重点工程。
3、特别推荐用于高强度、高性能、高耐久性混凝土及超流态自密实混凝土。

使用方法及注意事项：

1、本品为无色至黄棕色粘稠液体，颜色和粘稠度随浓度变化略有变化。
2、本品可单独使用，也可与其他功能性外加剂复配使用，可配制成具有缓凝、早强、防冻等功能性系列外加剂。
3、本品具体掺量因实际情况而异，建议首次使用进行相关的适应性实验。
4、本品不能与萘系减水剂复合使用，与其它品种的外加剂复配时，需进行相关的适应性实验。
5、混凝土浇注后请按施工规程相关规定对混凝土进行养护。
6、聚羧酸减水剂的效果对骨料的含泥量及掺合料品质的变化较为敏感，建议选用符合标准的骨料及掺合料。
7、使用过程中应准确计量，避免较大的用量误差。

包装贮运：

1、200Kg、1000Kg桶装密封，其他规格视用户要求定做。
2、储存过程防渗漏、防暴晒、防高温，可按一般化学品运输规定办理。
3、在原包装情况下，保质期半年。

Product name: Polycarboxylate superplasticizer(Based HPEG)

Product introduction: HSHPC is one high water reducing agent based polycarboxylate with high slump retaining performance which can greatly improve the plasticity index of fresh mix concrete also to improve the pumping and constructability. The product is made by new type initating system,without heating in the reaction process, so saving energy and protecting environment, no special requirement on synthesis water, particularly applicable to no heating condition and nodeionized water production equipment, with significant economic and social significance.

Main Tech property:

1. High water reducing, middle level slump retaining, low dosage, good initial fluidity, less slump loss.
2. Improve the strength obviously for hardened concrete. later strength keep increase.
3. Excellent workablity.Without bleeding and segregation, easily pumping, beneficia for concrete strength increase and structure development.
4. It is compatible with ordinary silicate cement, silicate cement, slag silicate cement and all kinds of blendings, especially suitable for adding fly ash and mineral powder etc. active additives, formulated high performance concrete.
5. Low alkali and no chlorine content, no corrosion for corugated steel bar.
6. The product is nontoxic and harmless, friendly to environment.

Application:

1. Widely used in large volume, long distance transportation and pumping concrete, which has high water reducing requirement on concrete.
2. Widely used in high strength concrete for water conservancy, marine engineering, port, traffic and electric power etc.
3. Especially suitable for the preparation of high strength, high performance high durability self compacting and self-levelling concrete.

Use method and the matters needing attention:

1. The product is colorless to yellow brown viscous liquid, a slightly change of color and viscosity for dfferent concentration.
2. It can be used alone or formulated to functional series admixtures with retarder, early strength accelerator, antifreezer etc.
3. Specific dosage varied as actual situation. Recommended do a relevant adaptability experiments. for the first time use.
4. The product can not use together with naphthalene sulphonate water reducer. When formulate blending with other type additives, which request to do the related adaptability experiments first.
5. Please curing the concrete as Construction regulations after concrete pouring.
6. The effect of HSHPC is sensitive for silt content of aggregate and changes of additives' quality, It is recommended to use standard aggregate and additives.
7. Accurate measurement is a must when using to avoid big dosage error.

Package and storage & transportation:

1. 200kg 1000kg sealed drum or packed as customers' requirements.
2. Keep off leakage, sunshine, high temperature when storage,can be handled according to general chemical transportation regulations.
3. With the original packaging, Its shelf life is normally 6 months.

上述信息源于我们目前的知识和经验，由于存在诸多影响工艺及应用的因素，因此上述数据不能作为免除相应的进货检验的依据。同时，上述数据也不含对特殊用途的承诺。

07

聚羧酸减水剂母液HSTPC

Polycarboxylate superplasticizer (Based TPEG)

产品名称： 聚羧酸减水剂母液HSTPC

产品概述： 本产品是保坍型聚羧酸高性能减水剂母液，通过分子结构优化设计，具有优异的坍落度保持作用，并具有较高减水率，能极大改善新拌混凝土的塑性指标，提高泵送及施工性，同时，对混凝土强度增长及结构发展也具有显著提高作用。

主要技术性能：

1、具有较高的减水率，保坍性能优越，经时坍落度损失极小或不损失。
2、对硬化混凝土有明显的增强效果，后期强度仍可见增长。
3、出色的和易性，不离析、不泌水，可泵送性好，对混凝土强度增长及结构发展极其有利。
4、适应多种水泥及掺合料，特别适用于掺加粉煤灰、矿粉等活性掺和料配制的高性能砼。
5、无氯、低碱，对钢筋无锈蚀。
6、本产品无毒、无害、对环境友好。

适用范围：

1、适用于对保坍性要求较高的混凝土，如大体积、远距离输送及泵送混凝土。
2、适用于各种水利、海工、港口、交通、电力等对混凝土性能要求较高的重点工程。
3、特别推荐用于高强度、高性能、高耐久性混凝土及超流态自密实混凝土。

使用方法及注意事项：

1、本品为无色至黄棕色粘稠液体，颜色和粘稠度随浓度变化略有变化。
2、本品可单独使用，也可与其他功能性外加剂复配使用，可配制成具有缓凝、早强、防冻等功能性系列外加剂。
3、本品具体掺量因实际情况而异，建议首次使用进行相关的适应性实验。
4、本品不能与萘系减水剂复合使用，与其它品种的外加剂复配时，需进行相关的适应性实验。
5、混凝土浇注后请按施工规程相关规定对混凝土进行养护。
6、聚羧酸减水剂的效果对骨料的含泥量及掺合料品质的变化较为敏感，建议选用符合标准的骨料及掺合料。
7、使用过程中应准确计量，避免较大的用量误差。

包装贮运：

1、200Kg、1000Kg桶装密封，其他规格视用户要求定做。
2、储存过程防渗漏、防暴晒、防高温，可按一般化学品运输规定办理。
3、在原包装情况下，保质期半年。

Product name: Polycarboxylate superplasticizer (Based TPEG)

Product introduction: HSTPC is one high slump retaining type polycarboxylate superplasticizer, through molecular structure optimization design, with excelent slump keeping function and high water reducing rate, which can greatly improve the plasticity index of fresh mix concrete to improve the pumping and constructability. Meanwhile beneficial for concrete strength increase and structure development.

Main Tech property:

1. High flowing, high slump retaining, less or no slump loss.
2. Improve the strength obviously for hardened concrete. later strength keep increase.
3. Excellent workability, without bleeding and segregation, easily pumping, beneficial for concrete strength increase and structure development.
4. It is compatible with ordinary siliate cement, silicate cement, slag silicate cement and all kinds of blendings, especially suitable for adding fly ash and mineral powder etc. active additives, formulated high performance concrete.
5. Low alkali and no chlorine content, no corrosion for corrugated steel bar.
6. The product is nontoxic and harmless, friendly to environment.

Application:

1. Widely used in lange volume. long-distance transmission and pumping concrete. which has high requirement on concrete slump retention.
2. Widely used in high strength concrete for water conservancy, marine engineering, port, traffic and electric power etc. main project.
3. Especially suitable for the preparation of high strength, high performance high durability self-compacting and self-levelling concrete.

Usage:

1. HSTPC is colorless to yellow brown viscous liquid, a slightly change of color and viscosity for different concentration.
2. It can be used alone or formulated to functional series admixtures with retarder, early strength accelerator, antifreezer etc.
3. Specific dosage varied as actual situation. Recommended do a relevant adaptability experiments for the first time use.
4. The product can not use together with Naphthalene, when formulation blending with other type additives doing The related adaptability experiments.
5. Please curing the concrete as Construction regulations after concrete pouring.
6. The effect of HSTPC is sensitive for silt content of aggregate and changes of additives' quality, It is recommended to use standard aggregate and additives.
7. Accurate measurement is a must when using to avoid big dosage error.

Package and storage & transportation:

1. 200kg, 1000kg sealed drum or packed as customers'requirements.
2. keep off leakage, sunshine, high temperature when storage.
3. In case the original packaging, Its shelf life is normally 6 months.

上述信息源于我们目前的知识和经验，由于存在诸多影响工艺及应用的因素，因此上述数据不能作为免除相应的进货检验的依据。同时，上述数据也不含对特殊用途的承诺。

08 粉体减水剂

产品说明

聚羧酸系高性能减水剂是缩木钙为代表的普通减水剂和以萘系为代表的高效减水剂之后发展起来的第三代高性能减水剂，HH PC-1025粉剂是一种通过新型工艺制成的粉状聚羧酸高性能减水剂，其综合性指标优良、绿色无污染，是一种高性能环保型产品。



产品特性

主要特点是：分散性好、减水率高、含气量低，与各种水泥的适应性好。本品符合GB8076-2008国家标准高性能减水剂指标。

规格

本产品分为：粉剂：HH PC-1025

产品应用

①高性能混凝土、高流动性混凝土、高耐久性混凝土、铝酸盐水泥耐火混凝土、低水泥耐火浇注料、蒸养混凝土、自流平混凝土等；

②灌浆材料、自流平地坪、石膏制品、填缝料、高强砂浆等；

③本产品特别适用于高强度、高流动性类的特种砂浆；

技术指标

外观：白色粉末

砂浆减水率大于25%

氯离子含量<0.1%

建议掺量0.16-0.3%（胶凝材料总重的%）

包装：袋装

储存期：一年

使用及储存运输

使用过程中，请小心不要将该产品接触眼睛，嘴巴以及皮肤，推荐使用保护手套和眼镜。如不小心沾上，请用大量清水冲洗被沾部分。粉剂易吸潮，应在密封的原装袋中存放，并置于干燥的地方。温度不要超过40C，不要叠放过高。搬运时应轻拿轻放，防止破损，运输时避免受潮。PC-1025属于无毒，无刺激性，非可燃类产品。

product description

Cement grinding aid is a special grinding aid, which is suitable for cement grinding alone. Increase production.After the products are put into the market, they are well received by users.

product performance

1.Wood mud grinding AIDS may significantly improve the working conditions in the mill when added in a proper amount. Increase the hourly output of cement mill by 10% to 20%

2.Cement grinding AIDS are suitable for closed-circuit grinding systems and open-circuit grinding systems. The model HF-5 is 0.0.5%. The cement grinding aid is a compound grinding aid. The product is brown, non-toxic and non-corrosive. The storage content is less than 2%, and the discharge amount is 0.06% of the cement quality. It is suitable for PS32.5 and PC32.5 cement, and the pants pressure is 3 days.

Product use

When the temperature is increased by 2-4a, the compressive strength is increased by 4-GMPA in 28 days, and the lifting time is 10%-20%, and the density is 1.05W/M3-1.131/M3.

1. Addition amount: 0.1% of the mass of wood mud. matters need attention

2.This product should be stored in an airtight container to avoid sun exposure and freezing

3.When in use, the relevant process parameters of the grinding system shall be appropriately

adjusted

4.TGA-5 requires that the comprehensive moisture content of the material should not exceed 3%, and the temperature of the grinding material should be maintained.The temperature shall not exceed 140° C (note: if it exceeds 140, it can be diluted with 1:3 water);

5.The shelf life of this product is 180 days

6.The storage and use temperature of the product is-5 C-45 C..

09 水泥助磨剂

产品名称：水泥助磨剂

产品说明

水泥助磨剂是一种专用型助磨剂，适用于水泥单独粉磨，提产。产品投入市场后，深受用户欢迎。

产品性能

1、水泥助磨剂在适量加入的情况下可能显著改善磨内工况，提高水泥磨机台时产量10% 20%；

2、水泥助磨剂适用于闭路粉磨系统和开路粉磨系统；

产品使用

1、掺加量：水泥质量的0.1%。

注意事项

1、本品应储存在密闭容器内，避免日晒、冰冻；

2、使用时须适当调整粉磨系统有关工艺参数；

3、TGA-5 要求物料综合水分不超过3%，入磨物料温度不超过140° C(注：超过140° 可用水1:3稀释)；

4、本品保质期为180天；

5、产品储存、使用温度为-5° C-45°C。





型号	HF-5	掺量	0.05%

水泥助磨剂是一种复合型助磨剂，该产品为棕色液体，无毒、无腐蚀，碱含量小于2%，掺入量为水泥质量的0.06%，适用PS32.5及PC32.5水泥。3天抗压强度增加2-4MPA，28 天压强度增加4-6MPA。 可提台时10%-20%，密度1.05T/M3-1.13T/M3。

product description

Polycarboxylic acid-based high-performance water reducer is the third generation of high-performance water reducer developed after common water reducer represented by lignosulphonate and high-efficiency water reducer represented by naphthalene. HHPC-1025 powder is a powdery polycarboxylic acid-based high-performance water reducer made by a new process, which has excellent comprehensive indexes, is green and pollution-free, and is a high-performance environmental protection product.





Product characteristics

The main characteristics are: good dispersibility, high water reduction rate, low gas content, and Various cements have good adaptability. This product conforms to the national standard GB8076-2008 high performance water reducer.

specifications

This product is divided into: powder: HH PC-1025

product application

①High-performance concrete, high-fluidity concrete, high-durability concrete, aluminate cement refractory concrete, low-cement refractory injection material, self-leveling concrete, etc.

②Grouting materials, self-leveling floor, gypsum products, caulking agent, high-strength mortar, etc.

③This product is especially suitable for special mortar with high strength and high fluidity.

Technical indicators Appearance: Self-colored powder The water reducing rate of mortar is more than 25% Chloride ion content < 0.1% The recommended dosage is 0.16-0.3% (%of the total weight of cementitious materials).

Use, storage and transportation

Please be careful not to touch the eyes, mouth and skin during use. Protective gloves and glasses are recommended. If it is accidentally stained, please rinse the stained part with plenty of water. Powder is easy to absorb moisture, so it should be stored in a sealed original bag and placed in a dry place. The temperature should not exceed 40C, and it should not be stacked too high. Handling should be handled with care, to prevent damage, and to avoid being affected with damp during transportation. PC-1025 is a non-toxic, non-irritating and non-flammable product.

10 矿粉助磨剂

说明书

适用于矿渣水泥及矿渣粉，掺量0.1%,7天提高活性10%以上,28天提高15%以上，优化矿粉性能，提高产品价值，提高企业效益。



产品复合功效

1、增加比表面积，减少筛余量。

用户在不提高产量的前提下，矿粉比表面积可提高50m/kg-130m/kg筛余量下降1%-2%。

2、提高矿粉品质

用户在不提高产品产量的前提下，可使矿粉的活性指数提升，使矿粉的品质得到提高。

3、节能增效

(1)用户在保持原生矿粉参数不变前提下，使用该助磨剂可以提高产量15%以上。

(2)用户在使用该助磨剂时，可以使矿渣含水量提高1%，干燥能耗减少、降低生产成本。

(3)该助磨剂可以使制粉系统风量降低，通风耗电减少，降低生产成本。

产品标准

① 有效成份：≥90%
② 含水量：<5%
③ PH值:5-8
④ 氯离子含量:0
⑤ 钢筋腐蚀：无

Product Introduction

Itis applicable forslagcement and slagpowder withdosage 0.1%,itcan increase the activation by 10%in7days and above 15%in 28days,whichcan optimize the powder performance,improve the product value and increase the enterprise benefit



1,Increase specificareaandreduceweight ofscreen residueIn thecase thattheusersdon't need to increase output,the specific area of mineral powder can increase by 50m2/kg-130m2/kg,and the weight of screen residue candecrease by 19%-2%.

2,Improvequalit

In the case that the users don't need to increase output,it can increase the actvityindexof mineral powder,thus improveits qualit.

3,Energysaving and efficiencyincreasing

1)Under the premise that the user remains unchanging for the parameters of mineral powder,it can increase output above 15%by using this grinding aid;

2)When theusers use this grinding aid,itcan increase water content of mineral powder by 1%,which canreduceenergyconsumption thus reduce production cost.

3)This grinding aid can reduce the air volume of the pulverizingsystem, reduce the power consumption of ventilation and reduce the production cost

Product Standard

①Effective constituent:≥90%
②Watercontent<5%
③PH value:5-8
④Chlorine ion content:0
⑤No corrosion

11 三异丙醇胺系列 Triisopropanolamine series

产品名称：三异丙醇胺，1,1′,1"-氮基三-2-丙醇

化学结构：$N(CH_2CHOHCH_3)_3$

英文简称：TIPA

CAS号：122-20-3

产品性能：三异丙醇胺（TIPA）属烷醇胺类物质，是一种具有胺基和醇性羟基的醇胺化合物，由于其分子中既含有氨基，又含有羟基因此具有胺和醇的综合性能，具有广泛的工业用途，是一种重要的基础性化工原料。

应用范围：

1、用于水泥助磨剂可以提高研磨效率，对提高水泥后期强度有显著作用。

2、用于纤维工业中的精炼剂、润湿剂、抗静电剂和染色助剂。

3、金属工业中做抗氧剂、切削冷却剂。

4、聚氨酯行业中做交联剂和起始剂。

包装规格：210kg/桶，其他规格视用户要求定做。

贮存运输：密封运输，可按一般化学品运输规定办理。防止碰撞、日晒、雨淋、远离火源，贮存于清洁、干燥及阴凉通风处。

产品保质期：在规定的贮运条件下，保质期一年。

质量指标/Specification				
指标Index 型号Type	产品外观 Appearance	总有效含量%，≥ TheTotal content of effective component %，	TIPA含量 %，≥ Content of TIPA%,≥	含水量 %，≤ water content%,
85%	无色至淡黄色透明粘稠液体 Colorless to light yellow transparent viscous liquid	87	85	13

Product Name: triisopropanolamine, 1, 1', 1" nitrogen base 3-2-propanol

Formula: $N(CH_2CHOHCH_3)_3$

Short name: TIPA

CAS: 122-20-3

Product performance: Triisopropanolamine (TIPA) is alkanol amine substance, is a kind of alcohol amine compound with hydroxylamine and alcohol. For its molecules contains both amino, and containing hydroxyl, so it has the comprehensive performance of amine and alcohol, has a wide range of industrial applications, is an important basic chemical raw material.

Application:

1. Used for cement grinding aid can improve the efficiency of grinding. has significant effect to improve the late strength of cement.

2. Used in the fiber industry as refining agent and wetting agent, antistatic agent and dyeing auxiliaries.

3. Used as antioxidants in metal industry, cutting coolant.

4. As crosslinking agent and starting agent in polyurethane industry.

Packing specification: 200 kg/drum, other specifications depending on the user requirements.

Storage transport: Sealed transportation, prevent the collision, sunlight, rain, away from the fire source, stored in clean, dry and cool and ventilated place.

Product warranty: Survey the prescribed conditions, the shelf life is one year.

12 二乙醇单异丙醇胺系列

Diethanolisopropanolamine series

产品名称：二乙醇单异丙醇胺，1-[N,N-双(2-羟乙基)氨基]-2-丙醇

化学结构：$(HOCH_2CH_2)_2NCHCH_3CH_2OH$

英文简称：DEIPA

CAS号：6712-98-7

产品性能：二乙醇单异丙醇胺(DEIPA)多应用于水泥助磨剂中，用于取代助磨剂中的三乙醇胺及三异丙醇胺，具有极好的助磨效果。使用二乙醇单异丙醇胺为核心原料合成的助磨剂，能够同时提升水泥3天强度和28天强度。在适应性强的条件下，早期强度高于三异丙醇胺，一般情况略低于三乙醇胺；确定的是可以大幅提高后期强度，高于三乙醇胺及三异丙醇胺。

应用范围：

1、用于水泥助磨剂可以提高研磨效率，对提高水泥强度有显著作用，实际用量建议客户视具体情况而定。

2、本品可单独使用，也可与三乙醇胺、三异丙醇胺及其它醇、胺、脂类物质配伍使用。

3、分子结构中同时含有醇和胺两种官能团，可在适当条件下与多种物质反应生成酯、酰胺盐等。

包装规格：220kg/桶，其他规格视用户要求定做。

贮存运输：密封运输，可按一般化学品运输规定办理。防止碰撞、日晒、雨淋、远离火源，贮存于清洁、干燥及阴凉通风处。

产品保质期：在规定的贮运条件下，保质期一年。

质量指标/Specification

指标Index 型号Type	产品外观 Appearance	总有效含量%，≥ TheTotal content of effective component %，≥	DEIPA含量 %，≥ Content of DEIPA%,≥	含水量 %，≤ water content%,≤
85%	无色至淡黄色透明粘稠液体 Colorless to light yellow transparent viscous liquid	87	85	13

Product Name: Diethanolisopropanolamine, 1- [N, N (2 - hydroxyethyl) amino] - 2 propanol

Formula: $(HOCH_2CH_2)_2NCHCH_3CH_2OH$

Shortname: DEIPA

CAS: 6712-98-7

Product performance: Diethanolisopropanolamine (DEIPA) mainly be used in the cement grinding aid, used to replace Triethanolamine and Triisopropanolamine, has the extremely good grinding effect. With Diethanolisopropanolamine as the core material made of grinding aid in improving their strength of cement for 3 days at the same time, can improve the strength of 28 days. Under the condition of strong adaptability, early strength is higher than Triisopropanolamine, but in general, it was slightly lower than Triethanolamine. No doubt, can significantly increase the later strength, generally higher than Triethanolamine and Triisopropanolamine.

Application:

1. Used for cement grinding aid can improve the efficiency of grinding, has significant effect to improve the strength of cement; The actual dosage advises clients depending on the specific situation.

2. This product can be used alone, also can with Triethanolamine, Triisopropanolamine and other alcohols, amines, esters material compatibility.

3. The molecular structure contains two kinds of alcohol and amine functional group at the same time, under some appropriate conditions can react with a variety of material generated ester. amine, salt. etc.

Packing specification: 220 kg/drum, other specifications depending on the user requirements.

Storage transport: Sealed transportation, prevent the collision, sunlight, rain, away from the fire source, stored in clean, dry, cool and ventilated place.

Product warranty: Survey the prescribed conditions, the shelf life is one year.

13 聚丙烯纤维

产品说明

聚丙烯纤维，又称为工程纤维、混凝土纤维、抗裂纤维、防裂纤维或合成纤维，塑料纤维等，是一种以聚丙烯为主要原料，以独特生产工艺制造而成的高强度束状纤维，加入混凝土或砂浆中有效的控制混凝土(砂浆)固塑性收缩、干缩、温度变化等因素引起的微裂缝，防止及抑止裂缝的形成及发展，大大改善混凝土的阻裂抗渗性能，抗冲击及抗震能力，可以广泛的使用于桥面和路面(公路和机场跑道)的罩面层、采矿和隧道工程的各种应用、铁路、高层建筑、边坡的固定、防火设施、混凝土修补、工业民用建筑工程的屋面、墙体、地下室、水池及楼顶花园的防水工程、保温抗裂砂浆、各种强制混凝土产品等。





主要功能

作为混凝土的次要加强筋材料，聚丙烯纤维可大大提高其抗裂、抗渗、抗冲击、抗震、抗冻、抗冲磨、抗爆裂、抗老化性能及和易性、泵送性、保水性。

阻止混凝土裂缝的产生；

提高混凝土的抗渗性能；

提高混凝土的抗溶性能；

提高混凝土的抗冲击、抗折、抗疲劳、抗震性能；

改善混凝土的耐久性、抗老化性；

提高混凝土的耐火性能。

建议掺量

砂浆建议每方砂浆掺量为:2KG

混凝土建议每方混凝土掺量为:2-3KG

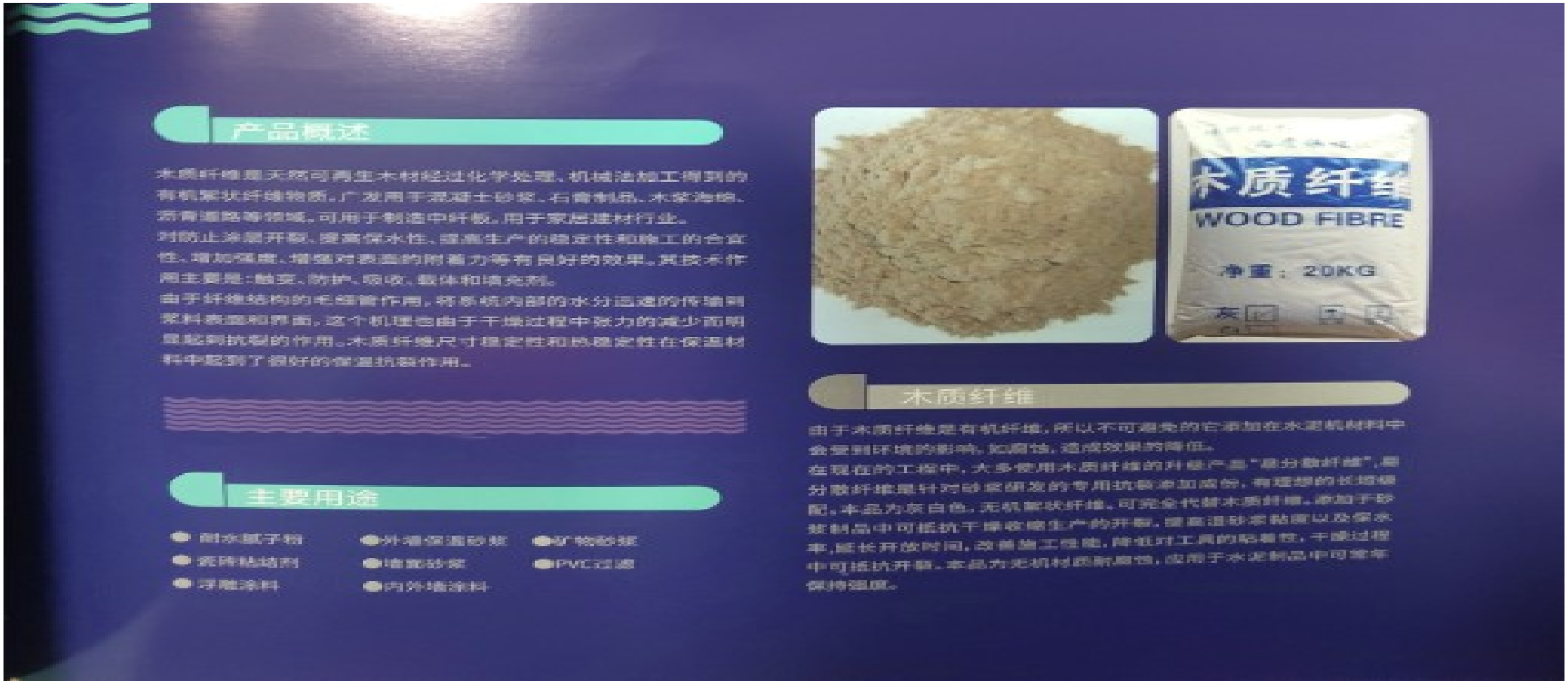
聚丙烯纤维规格及包装

基本规格:3-60MM

基本包装:1.0KG/袋用薄膜包装；

外包装用编织袋包装。

14木质纤维素


产品概述
木质纤维是天然可再生木材经过化学处理、机械法加工得到的有机絮状纤维物质。广泛用于混凝土砂浆、石膏制品、木塑海绵、沥青混凝等领域，可用于制造中纤板，用于家居建材行业。
对防止涂层开裂、提高保水性、提高生产的稳定性和施工的合宜性、增加强度、增强对表面的附着力等有良好的效果。其技术作用主要是：触变、防护、吸收、载体和填充剂。
由于纤维结构的毛细管作用，将系统内部的水分迅速的传输到浆料表面和界面，这个机理也由于干燥过程中张力的减少而明显起到抗裂的作用。木质纤维尺寸稳定性和热稳定性在保温材料中起到了很好的保温抗裂作用。
主要用途
耐水腻子粉
瓷砖粘结剂
弹敷涂料
外墙保温砂浆
墙面砂浆
内外墙涂料
矿物砂浆
PVC过渡
木质纤维
由于木质纤维是有机纤维，所以不可避免的它添加在水泥机材料中会受到环境的影响，如腐蚀，造成效果的降低。
在现在的工程中，大多使用木质纤维的升级产品"易分散纤维"，易分散纤维是针对砂浆研发的专用抗裂添加剂，有理想的长短级配。本品为灰白色，无机絮状纤维，可完全代替木质纤维，添加于砂浆制品中可抵抗干缩收缩生产的开裂，提高湿砂浆粘度以及保水率，延长开放时间，改善施工性能，降低对工具的粘着性，干燥过程中可抵抗开裂。本品为无机材质耐腐蚀，应用于水泥制品中可常年保持强度。
木质纤维
WOOD FIBRE
净重：20KG

15 羟丙基甲基纤维素

产品说明

丙基甲基纤维素(HPMC)是以天然高分子材料精制棉为原料，经一系列化学加工而制成的非离子型纤维素醚。主要应用于建筑行业一耐水腻子粉、腻子膏、钢化腻子、涂料胶水和保温砂浆等干粉建材，保水效果好，易施工、光度亮好，粘度和凝胶时间可根据客户需要定制。

包装与贮存

包装：外用望纸袋封装，内用聚氯乙烯望料袋包装,每袋净重25KG。

贮存：防雨防晒，防火防潮，密闭通风。

运输：按防潮普通化学品运输。



16 可再分散乳胶粉

产品说明

可再分散性乳胶粉末为水溶性分散粉末，为乙烯、醋酸乙烯脂的共聚物，以聚乙烯醇作为保护胶体。通过加入可再分散性乳胶粉，使水泥或石膏为底材的砂浆的性能能满足各种施工建筑的需要，由于VAE可再分散乳胶粉具有高粘结能力和独特的性能，如：抗水性、施工性及隔热性等。因此，它们的应用范围是极其广泛的。

产品应用

◆干粉腻子：提高粘结强度，对基层的附着力，连续成膜性，干粉腻子不受天气湿度影响，使产品更稳定，耐碱性强，防水性能优良。

◆瓷砖粘结剂：对墙体有极强的附着力和粘结强度，贴高档砖必翻新界剂：粘结强度好，对瓷砖面光滑不吸水的基面附着力超强。

◆外墙外保温：粘结砂浆、抹面砂浆等其他建筑砂浆，尤其适用于柔性建筑砂浆。

产品性能

◆可改善其接着力，抗弯强度，抗磨耗和工作性；

◆柔性高、粘结强度好；

◆有极突出的防水性能；

◆增加砂浆的弹性并有较长之开放时间；

◆赋予砂浆优良的耐碱性。由于AE可再分散性乳胶粉具有高粘结能力和独特的性能；如：抗水性、施工性及隔热性等。因此，它们的应用极其广泛。



包装：25KG/袋包装。

17 羟丙基淀粉醚

产品说明

羟丙基淀粉醚(HPS)是一种以天然植物为原料，经过改性、高度醚化反应、然后喷雾干燥而得到的白色精细粉末，不含增塑剂。它完全不同于普通的淀粉或改性淀粉。

▲很好的快速增稠能力；有一定的保水性；
▲用量小极低的添加量即能达到很高的效果；
▲提高材料抗下滑能力；
▲改善材料的操作性能、使操作更滑爽；
▲延长材料的开放时间。



包装：25公斤/包

应用领域

可作为水泥基产品、石膏基产品及灰钙产品的外加剂。与其它建筑外加剂有很好的相容性。

与羟丙基甲基纤维素醚(HPMC)配合使用，能起到增稠作用，促进内部结构，具有更好的抗裂性和提高和易性。通过添加改性淀粉醚能明显减少HPMC添加量。

注意事项

推荐用量:0.055%-0.1%同时可以降低甲基纤维素醚0.1%左右。

存放:存放于阴凉干燥的地方，为防潮湿渗透已打开的包装袋应再次密封，堆放昧能超过一托板；贮存不超过一年。

应用特性

1. 很好的快速增稠能力；中等粘度，有一定的保水性。
2. 用量小，极低的添加量即能达到很高的浆果。
3. 提高材料的抗下滑能力。
4. 改善材料的操作性能，使操作更滑爽。
5. 延长材料的开放时间。

建议应用于以下材料中:

1. 各类(水泥、石膏、灰钙基)内、外墙腻子粉；
2. 各类(瓷砖、石材)粘结剂；
3. 各类饰面砂浆及各类抹灰尘砂浆。

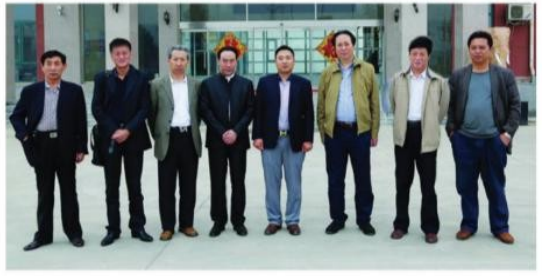
HUAHAIFI
水泥产业链外加剂专业设计制造商

香港建业集团项目部考察参观





公司领导与中国书协、美协领导合影





销售网络 Sales Network

华海菲菲凭借先进的技术、出色的品质、诚信共赢的战略合作方针，建立起遍及全球的营销服务网络，以战略性的布局、完善的销售服务网络，给各地的分销商、广大客户以强有力的支持。华海菲菲已发展为有广大销售网络、技术服务网点和有较强实力的产品、系统解决方案及实施服务的综合性公司，并设立多个办事处。同时公司各项产品库存充足、供货快捷，并依托先进的信息管理系统和高效的物流管理系统，快速解决客户需求，提供优质服务 。

Relying on the strategic cooperation policy of advanced technology, excellent quality and integrity, huahai feifei has established a global marketing service network with strategic layout and perfect sales and service network. Give strong support to distributors and customers all over the country. Huahai feifei has developed into an integrated company with a vast sales network, technical service outlets and strong products, system solutions and implementation services, and has set up a number of offices. At the same time, the company has sufficient inventory and fast supply of products, and relies on advanced information management system and efficient logistics management system to quickly solve customer needs and provide quality services.

HUAHAIFI
华海菲菲
水泥产业链外加剂专业设计制造商

工程案例 Engineering Case







HUAHAIFI 华海菲菲
项目案例 PROJECT CASE

恒大集团 EVERGRANDE GROUP
万达集团 WANDA GROUP
碧桂园
建业集团 CENTRAL CHINA
vanke 万科
保利地产 和 | 谐 | 筑 | 善
绿地集团 世界500强企业
泰华集团 TAIHUA GROUP

- 使用湿拌砂浆剂施工现场




- 使用干粉砂浆剂施工现场



