

# Concrete Admixtures

## Know-how Transfer

### Aliphatic Superplasticizer Technology Know-How Transfer

*No heating system, easy to apply;  
No pollution in the production;  
Low investment, and high return*



Aliphatic superplasticizer, also named sulfonated acetone-formaldehyde based superplasticizer, whose hydrophobic-based main-chain is aliphatic hydrocarbons. This superplasticizer is widely used in producing of various commercial concrete such as premix, pumping, and tube concrete. A large number of projects have indicated that this product will not only remarkably improve concrete fluidity, but also accelerate-setting, increase strength, and have better retarding and low slump loss.

#### Technical specification

Visual appearances: red brown

Solid content: >35%

Density: 1.15-1.2

#### Advantages

- High water-reducing rate: With addition rate of 1-2%, it can reduce water 15-25%. Concrete with this product can reduce cement assumption 25-30%.
- High strength: Given the same amount of cement and slump requirement, it can reach 60-70% of the design strength on day 3, and 100% on day 7. On day 28, it can increase the concrete strength 30-40% more than the concrete without superplasticizer.
- High plasticizing: low slump loss, nearly no slump loss in 60min. In 90min slump loss is 10-20%
- High applicability: excellent workability and cohesiveness. Widely compatible with different kind of cement. It is also well compatible with other admixtures.
- Effective durability: It can modify the structure of concrete and increase the property of anti-seepage, anti-freezing, and carbonization.
- It is good to be used in following concrete: flowable concrete, nature curing concrete, steam-curing concrete, impervious and water-repellent concrete, durable freeze-thaw, marine sulphate resistance of concrete.
- Safety: No toxic, not flammable, no corrosion to steel-bar. It has no crystals in winter.

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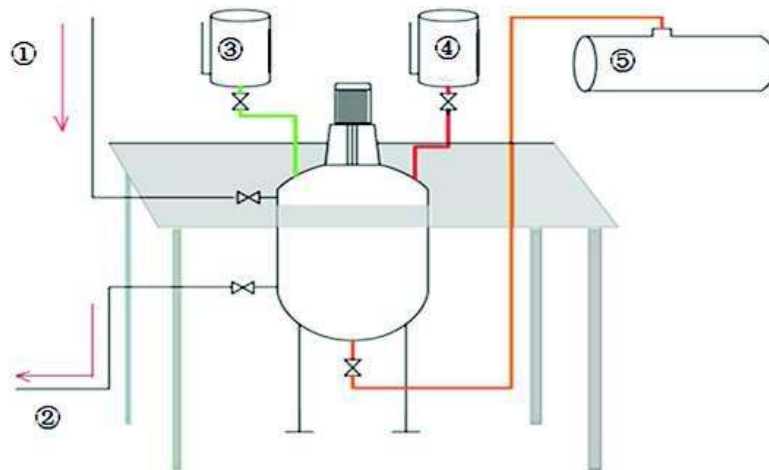
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## Know-how Transfer

### Equipment and Facilities (20 tons per day)



- ① cold water
- ② hot water
- ③ measuring tank for hot water
- ④ measuring tank for formaldehyde
- ⑤ Storage tank for finished products

Reactor, 1 set;

Measuring tank: 2 sets

Finished product storage tank: 1set

Total equipment investment: less than 19,000USD

Manufacturing know-how transfer: 50,000USD

### Raw materials

Formaldehyde, Acetone, Anhydrous Sodium Sulfit

### Operator

One to two

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