



# SPR1000 PCE SUPER PLASTICISER

MODIFIED HIGH-RANGE WATER REDUCING ADMIXTURE FOR CONCRETE

## USES

Suitable for precast concrete, cast-in-situ concrete, reinforced concrete and pre-stressed concrete such as high-speed railways, passenger railway lines, industrial and civil construction, bridges, port terminals, airports and so on.

## FEATURES

1. This 3rd generation super effective de-watering agent is a synthesised Sulfonated Hydrocarbon complex polymer. It **reduces slump loss** of concrete. Keeps about 75 - 90% of the primary slump within 2 hours.
2. Can be formulated to **increase slump quality** according to requirement and keep primary slump 90% within 5 hrs
3. **Reduces water consumption and improves concrete strength**
4. **Remarkably reduces primary heat of hydration** and hydration temperature peak and also **delays the appearance of temperature peak**
5. **Prolongs the work time** of various kinds of flowing concrete and **ensures the quality** of concrete construction
6. **Lower content of chlorine ion and alkali** in favor of concrete durability
7. **Non-pollution** during production process; an **environment-friendly product** without formaldehyde
8. **Does not have corrosive effect** on reinforced steel bars

## APPLICATION METHOD

Dosage: **0.3% to 0.5% of SPR 1000** based on the weight of cement  
or **300 g /100 kg Cement Weight**

## TECHNICAL DATA

Appearance: Clear Straw Colour Liquid  
pH value: 7 – 8



### Disclaimer:

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## CONCRETE WORKABILITY

1. **SPR 1000 Superplasticizer** will improve the long term slump-retention property of concrete.
2. There is almost no slump loss in half an hour and little slump loss in 1 hour.
3. Meanwhile, it has the characteristics of low dosage, high water reducing rate and low shrinkage.
4. The fluidity of concrete is improved greatly and the concrete remains workable for a long time.
5. Simultaneously, the workability and physical properties are improved, and the engineering quality is guaranteed and improved.

Water-Reducing Rate		%	≤25	26
Ratio of Bleeding Rate		%	Greater or = 60	26
Air Content		%	≤ 6.0	1.6
PH Value		/	6.0-7.0	5.8
Fluidity of Cement Paste		mm	Greater or = 220	280-310
Difference in Setting Time	Initial Setting Time	min	- 90~+120	- 25
	Final Setting Time	min		- 17
Ratio of Compressive Strength	1d	%	≤ 170	221
	3d	%	≤ 160	196
	7d	%	≤ 150	217
	28d	%	≤ 140	160
Slump Variation (1 h)		mm	≤ 80	20
Effect on Reinforcement Corrosion		/	no corroding	no corroding

### STORAGE

Store in cool and dry place. Keep out of direct sunlight.

### SHELF LIFE

1 year

### PACKING

1-kg bottle, 5-kg carboy, 20-kg pail, 200-kg drum, 1000-kg tote tank

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