



Total Building Protection

SPR 1000 PCE SUPER PLASTICISER

High Range Water Reducing Admixture for Concrete.

Uses:

It is suitable for precast concrete, cast-in-situ concrete, reinforced concrete and pre-stressed concrete, such as, high speed railway, passenger railway line, industrial and civil construction, bridge, port terminal, airport 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. Keep 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. It can reduce water consumption and improve concrete strength.
4. It can remarkably reduce primary heat of hydration, hydration temperature peak and delay the appearance of temperature peak.
5. It prolongs the work time of various kinds of flowing concrete. Assures 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 environmental-friendly products without formaldehyde.
8. Does not have corrosive effect on reinforced steel bar.

Application:

Dosage: **0.3 % to 0.5 % of SPR 1000** based on the weight of Cement.

Technical Data:

Appearance: Clear Straw Colour Liquid

pH value: 7 – 8



Disclaimer:

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Concrete Workability

- **SPR 1000 Superplasticizer** will improve the long term slump retention property of concrete.
- There is almost no slump lose in half an hour and little slump lose in 1 hour.
- Meanwhile, it has the characteristics of low dosage, high water reducing rate and low shrinkage.
- The fluidity of concrete is improved greatly and the concrete remains workable for long time.
- 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 years.

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

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