HIPPO CHEM

Concrete Superplasticizer

HP200

Concrete Superplasticizer is a liquid admixture based on polycarboxylate ether that has a normal level of water-reducing capability and is used for producing workable, high-performance concrete. In terms of setting, this product behaves normally and causes no retardation or acceleration in the cement hydration process. By reducing the water-to-cement ratio, the concrete superplasticizer increases the compressive strength of concrete at all ages, especially its early strength. It can be used to increase workability and moderately reduce the mixing water of concrete (up to 25 percent).

Applications: Pumped concrete; casting of beams, slabs, bridge decks, columns and shear walls; concrete production in hot regions; creating and maintaining workability in ready-mixed concrete; providing cohesion in concrete mixes with coarse-graded aggregate.

Method of use: The concrete superplasticizer can be added at the batching plant during concrete production, or to the truck mixer at the project site. It can also be added to ready-mixed concrete; placement should begin only after thorough mixing is confirmed. It is recommended to mix the plasticizer in the truck mixer for at least 1 minute per cubic meter of concrete. Do not pour the plasticizing admixture directly onto dry cement.

Dosage: The exact dosage of the concrete superplasticizer admixture is determined based on proper site trials, the weather conditions and the type of materials used. The optimum dosage range for this product is 0.35 to 1.3 percent of the weight of cement and cement-replacement materials. Exceeding the usual dosage is not permitted because it retards the setting of concrete, an effect that is more pronounced with sulfate-resistant cement.

Property	Result	Test	Value per Iranian National Standard INSO 2930-2	Company Test Results
Physical state	Liquid	**Water reduction (equal workability)**	At least 12 percent less than the control mix	25 percent
Color	Honey brown to light	**Compressive strength (equal workability)**	1-day: greater than 140% and 28-day: greater than 115% of the control mix strength	1 day: 200 percent 28 days: 150 percent
Density	1.07 ± 0.02 g/cm³	**Increase in workability (equal water-to-cement ratio)**	Increase of 120 mm relative to the initial slump	160 mm
Solubility	Soluble in water	**Compressive strength (equal water-to-cement ratio)**	At least 90% of the 28-day control strength	128 percent
pH	4–6	**Fresh concrete air content (both cases)**	Maximum 2% by volume more than the control mix	1.3 percent
Chloride ions	None			

Packaging	20 kg jerrycan
Shelf life	One year in original packaging
Storage conditions	Protect from cold and frost, heat, and direct or prolonged sunlight
Recommended storage temperature	+10 to +30 °C

Address: Mostafa Khomeini Industrial Town, Phase 1, Sari, Mazandaran, Iran (corner of Golestan 3 West Alley)
WhatsApp: +98 915 789 2300

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تولیدکننده افزودنی های بتن، ژل میکروسیلیس و چسب های ساختمانی