HIPPO CHEM

Concrete Plasticizer

HP100

Concrete Plasticizer is a liquid admixture based on polycarboxylate ether that can be used to increase the workability and moderately reduce the water content of concrete (up to 12 percent). Concrete plasticizer is a multi-function product: in addition to increasing the workability of concrete, when the principles of concrete mix design are properly observed, it increases the compressive strength and durability of concrete. This product is widely used in various small and medium-sized construction projects, as well as in the production of precast concrete elements. Another feature of this product is that it prevents aggregate segregation and bleeding of concrete.

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 plasticizer 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 plasticizer 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 0.7 to 1.5 percent of the weight of cement and cement-replacement materials. Exceeding the usual dosage is not permitted.

Property	Result	Test	Value per Iranian National Standard INSO 2930-2	Company Test Results
Physical state	Liquid	**Water reduction (equal workability)**	At least 5 percent less than the control mix	12 percent
Color	Honey brown to light	**Compressive strength (equal workability)**	7-day and 28-day: greater than 110% of the control mix strength	7 days: 150 percent 28 days: 130 percent
Density	1.05 ± 0.02 g/cm³	**Fresh concrete air content (both cases)**	Maximum 2% by volume more than the control mix	1 percent
Solubility	Soluble in water			
pH	4–6			
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

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