

Kemflow super G18

High Range Water-Reducing and Set Retarding Concrete Admixture

Description	Kemflow Super G18 is a highly effective super plasticizer with a set-retarding effect for producing free-flowing concrete in hot climates. It is a substantial water reducing agent for promoting high early and ultimate strengths, also it reduces concrete permeability and thereby reduce water penetration and enhance durability. Standards: Complies with A.S.T.M. C-494 Type B, D & G.
Where to use	Kemflow Super G18 is used wherever high-quality concrete is required under difficult placing and climatic conditions. Kemflow Super G18 is used as a superplasticizer to: • Retain workability during hot climates. • Long transport conditions • Eliminates plastic shrinkage cracking, and segregation. • increases high early strength, surface hardness and density. • Ready - mixed concrete. • Production of flowing concrete.
Advantages	Kemflow Super G18 considerably improves the properties of concrete as follow: • improved durability and lower pumping pressure. • Allows water reduction. • Reduces concrete segregation & bleeding. • Quicker placing, good compaction and reduced labor coast. • Increases strength, durability and impermeability. • Up to 18% water reduction. • Improved surface finish.
Properties	
Type	Synthetic dispersion
Nitrate content	Nil
Color	Brown
Specific gravity	1.175 ± 0.01
Chloride content	Nil to BS. 5075
Dispensing	The correct quantity of admixture should be measured by means of a recommended dispenser. The admixture should then be added to the concrete with the mixing water to obtain the best results.
Direction for use	Kemflow super G18 should be added to the gauged water, but never to the dry aggregate or cement. Reduction of water is higher if the admixture is added to the concrete after 60-75% of the mixing water has been added.
Curing	PROKEM recommends the concrete be cured for 24 hours after finishing operations are complete by using Kemcure curing compound. spray applied surface contact curing membranes should be used in all cases.
Job site mixing	Add the Kemflow Super G18 Concrete admixture to the concrete truck and let drum rotate for 7 minutes before discharge.

Compatibility	Other admixtures may be used in the same concrete batch with Kemflow Super G18 provided that such admixtures are added separately and the combination has no deleterious effect on the concrete.
Cleaning	Spillage of Kemflow Super G18 can be removed with water.
Theoretical Dosage Rate	0.5 – 1.5 % by weight of cement. Exact dosage rates are dependent on the type of effect sought, quality of cement and aggregates, water/cement ratio and ambient temperature. Therefore, it is advisable to carry out trial mixes. Kemflow Super G18 is compatible with all types of Portland Cement including S.R.C...
Overdosing	- An overdose of Kemflow super G18 will result in an increase in retardation as compared to that normally at the intended dosage. - The effect of overdosing will be further increased if sulphate resisting cement or cement replacement materials are used. However, no excessive amounts of air will be entrained.
Packaging	Available in 25 kg. pails or 220 kg. drums. and tanks 1000 kg.
Shelf life & Storage	Up to one year when stored in original unopened packaging out of direct sunlight and kept under cover protected from extremes temperature
Health and Safety	Kemflow super G18 is non-toxic. - Use gloves to avoid contact with skin. - If skin comes in contact, wash immediately with soap and water. - Do not use solvents. - Eye contamination must be immediately washed with water, then seek medical treatment.
Additional Information	PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure. PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction. PROKEM reserves the right to change the properties of its products. All orders are accepted subject to our current term of sale & delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request. PROKEM extends technical services to include after sales support to assist users in a proper handling of our products. Environmental Considerations Kemflow super G18 Admixture is environmentally safe and contains no volatile organic compounds (VOCs). Kemflow super G18 Admixture contains an anti-microbial biocide to inhibit mold and bacteria growth.