

Kemflow super FM

Range Water Reducing Concrete Admixture

Description	Kemflow Super FM is a super plasticizer for high quality concrete in hot climates, to provide excellent acceleration of strength gain at early ages and major increases in strength at all ages. The basic components are synthetic polymers which allow mixing water to be reduced. also, it significantly improves durability by increasing ultimate strength. Standards: Complies with A.S.T.M. C494 type F
Where to use	Kemflow Super FM is used as superplasticizer for high quality flow concrete as it Improves the dispersion of the cement particles will increase cohesion at both the flowing and plastic consistency. The occurrence of bleeding and sand runs is substantially reduced and that improves the surface finish. Kemflow Super FM is used: Where high early strength is required. In complicated formwork or with congested reinforcement. For pre-stressed concrete. In precast concrete elements where high early strength is required. For low water/cement ratio concrete.
Advantages	Kemflow Super FM provides the following: - Free flowing concrete giving a flow table value of 51-62 cm (BS 1881), without increasing the free water content. Some minor mix amendments may be required to produce a flowing mix without segregation. Concrete permeability reduction. Accelerate strength after normal setting. For high quality finishing. Up to 20 % water reduction. Improvement in workability without increase in water. Chloride free. Without reducing the free water content Kemflow Super FM used for water reduction the increase in density and reduction of permeability, improves durability and reduces porosity.
Properties	
Nitrate content	Nil
Color	Brown
Specific gravity	1.19 ±0.01 @ 20 °C
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 FM 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.

Job site mixing	Add the Kemflow Super FM 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 FM provided that such admixtures are added separately and the combination has no deleterious effect on the concrete.
Cleaning	Spillage of Kemflow super FM can be removed with water.
Theoretical Dosage Rate	0.8 – 2 % by weight of cement. The optimum dosage for Kemflow Super FM should be determined by site trials with the particular concrete mix under current ambient conditions. Site trails should always be compared with and without Kemflow Super FM to quantify the true value of increase in workability and strength gain. As a guide, the dosage will fall into one of two ranges dependent on use Kemflow Super FM is compatible with all types of Portland Cement including S.R.C...
Overdosing	An overdose of Kemflow Super FM will result in an increase in retardation as compared to that normally at the intended dosage. The effects of overdosing will be further increased if sulphate resisting cement or cement replacement materials are used. however, no excessive amounts of air will entrain.
Packaging	25 Kg Pails 220 Kg Drums 1000 Kg Tanks
Shelf life & Storage	Up to one year when stored in original unopened package, away of direct sunlight and kept under a cover and protected from extreme temperatures.
Health and Safety	Kemflow super FM 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 FM Admixture is environmentally safe and contains no volatile organic compounds (VOCs). Kemflow super FM Admixture contains an anti-microbial biocide to inhibit mold and bacteria growth.