

Kemflow super F20*

High Range Water Reducing Concrete Admixture

Description	Kemflow Super F20* is a super plasticizer for high quality concrete in hot climates, for allowing increased early strength. The basic components are synthetic polymers which allow mixing water to be reduced. Standards: Complies with A.S.T.M. C494 type F.
Where to use	Kemflow Super F20* is used for flow concrete. Where high early strength is required. For pre-stressed concrete. Ready mixes.
Advantages	KEMFLOW SUPER F20* provides the following: - Improvement in workability without increase in water. Chloride free. For high quality finishing. Compatible with all types of Portland cement including S.R.C. Excellent strength after normal setting Up to 20 % water reduction.
Properties	
Nitrate content	Nil
Color	Brown
Specific gravity	1.19 ±0.01
Chloride content	Nil to BS. 5075.
Cohesion/Segregation	Improved dispersion of cement particles will increase cohesion at both, the flowing and plastic consistency. The occurrence of bleeding and sand runs is substantially reduced which will improve the surface finish.
Durability	Kemflow Super F20* is used for water reduction which will increase the density and reduce the permeability so high durability will be achieved.
Workability	Without increasing the free water content, Kemflow Super F20* will produce free flowing concrete giving a flow table value of 51-62 cm (BS 1881). Some minor mix amendments may be required to produce a flowing mix without segregation.
Dispensing	The correct quantity of Kemflow Super F20* should be measured by means of a calibrated dispenser. The measured quantity of admixture should be added directly to the concrete with the mixing water where possible.
Direction for use	Kemflow super F20 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.
Mixing	When flowing concrete is to be used, the dosing should be based on high cohesion pump mix technology where maximum economy is required via cement saving and free water content reduction the fines content should always be as (low) as possible to allow the remaining free water to act more efficiently.
Curing	As with all structural concrete, normal curing methods apply. Water spray, wet hessian or one of the Kemcure products.
Cleaning	Spillage of Kemflow Super F20* can be removed with water.

Theoretical Dosage Rate	The optimum dosage for Kemflow Super F20* 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 F20* 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: 0.8 – 2 % from weight of cement for cubic meter.
Overdosing	An over dose of double the recommended amount of Kemflow Super F20* will result in very high workability and some retardation will occur. The ultimate compressive strength of the concrete will not be impaired.
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 F20* 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.