

Product Data Sheet
Edition 07.2014
Identification No. CA - 1



KEMFLOW XR

Water Reducing And Retarding Concrete Admixture

Description

KEMFLOW XR is used as a concrete plasticizer and retarder where high quality concrete is required in difficult climatic conditions.

Standards :

B.S. 5075 Part 1 1983 ASTM C 494 Type A, B & D

Where to use

KEMFLOW XR is recommended for :

- Workability especially where difficult placing conditions are encountered and to obtain dense concrete.
- A set retarding agent to maintain workability and extend the time allowed for pouring and compacting, particularly in hot weather.
- For slip-forming concreting.
- Ready mixed concrete.
- Difficult placing conditions.
- Pumped concrete

Advantages

KEMFLOW XR provides the following properties :

- Reduced water without loss of workability.
- Increased setting times at elevated temperatures.
- Control of slump loss at high temperature.
- Decrease a concrete permeability.
- Minimizes the risk of segregation.
- Increased strengths.
- Safe for use pre-stressed concrete.

Properties

Type	modified lignosulphonate
Color	Brown
Specific gravity	1.13 ±0.02
Chloride content	Nil

How to use

Theoretical Dosage rate:

0.2 – 0.8 % by weight of cement. in many cases it is advisable to carry out trial mixes. **KEMFLOW XR** is compatible with all types of Portland Cement including S.R.C...

Overdosing:

An overdose of **KEMFLOW XR** 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 be entrained.

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 XR 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 XR** Concrete admixture to the concrete truck and let drum rotate for 7 minutes before discharge.

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**Compatibility:**

Other admixtures may be used in the same concrete batch with **KEMFLOW XR** provided that such admixtures are added separately and the combination has no deleterious effect on the concrete.

Cleaning:

Spillage of **KEMFLOW XR** can be removed with water.

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 XR** 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** extends technical services to include after sales support to assist users in a proper handling of our products.

PROKEM representative must be present at the job site during placement of the first batch of treated concrete. Do not proceed without this representative being present for certification.

Environmental Considerations

KEMFLOW XR Admixture is environmentally safe and contains no volatile organic compounds (VOCs).

KEMFLOW XR Admixture contains an anti-microbial biocide to inhibit mold and bacteria growth.

