

Product Data Sheet  
Edition 02.2014  
Identification No. CA - 16



## KEMFLOW SUPER 2010R

High Range Water-Reducing, Super Plastisizer And Set Retarding Concrete Admixture

### Description

**KEMFLOW 2010 R** 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 significantly improve the workability of concrete without increasing water demands.

#### Standards :

Complies with A.S.T.M. C-494 Type G.

### Where to use

**KEMFLOW 2010 R** is used wherever high quality concrete is required under difficult placing and climatic conditions.

**KEMFLOW 2010 R** is used as a superplasticizer to :

- Mass concrete.
- Ready mixed concrete.
- Pumped concrete.
- Production of flowing concrete.
- Pouring concrete in hot climate.

### Advantages

**KEMFLOW 2010 R** provides the following advantages:

- Especially suitable for hot climate, no excessive air-entrainment.
- No adverse effect on ultimate strengths.
- Increased water tightness.
- Long-lasting control of slump loss.
- Production of flowing concrete.
- Up to 18% water reduction.
- Improved surface finish.
- Substantial improvement in workability without increased water or the risk of segregation.

### Technical data

Type	Synthetic dispersion
Nitrate content	Nil
Color	Dark Brown
Specific gravity	1.21± 0.05
Chloride content	Nil to BS . 5075

### How to use

#### Theoretical dosage rate:

0.8 – 2.4% 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 2010 R** is compatible with all types of Portland Cement including S.R.C...

**Overdosing:** An overdose of **KEMFLOW 2010 R** 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 2010 R** 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 50-70% of the mixing water has been added.

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**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 2010 R** 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 2010 R** provided that such admixtures are added separately and the combination has no deleterious effect on the concrete.

**Cleaning:**

Spillage of **KEMFLOW 2010 R** 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 2010 R** 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 2010 R** Admixture is environmentally safe and contains no volatile organic compounds (VOCs).

**KEMFLOW 2010 R** Admixture contains an anti-microbial biocide to inhibit mold and bacteria growth.