

Product Data Sheet
Edition 07.2014
Identification No. CA - 7



KEMFLOW SN2008

High Early Strength Concrete Admixture

Description

KEMFLOW SN 2008 is a blend of different polymers and synthetic ingredients used to produce Excellent Flowable Concrete & Mortar in placing all types of concrete and especially self compacting concrete (SCC). Its accelerates the early stages of cement hydration to produce more rapid stiffening concrete.

Standards :

Complies with ASTM. C494 type C&F.

Where to use

KEMFLOW SN 2008 is used as superplasticizer for high early strength , self compacting concrete (SCC) ,high quality and very flowable concrete.

KEMFLOW SN 2008 is used for :

- Where high early strength is required.
- In complicated formwork or with congested reinforcements.
- For pre - stressed concrete.
- Steam cured concrete
- Precast concrete elements where high early strength is required.
- low water cements ratio concrete
- Beams and foundations.

Advantages

KEMFLOW SN 2008 provides the following:-

- Improvement in workability to produce Self Compacting Concrete (S.C.C).
- Accelerated strength for early shutter removing.
- For high quality finishing.
- Slower the rate of carbonation due to high impermeable concrete
- Increase water impermeability.
- Compatible with all types of Portland cement.
- > 20% water reduction.
- Improved dispersion of the cement particles will increase cohesion, flowability and S.C.C consistency.

***Blending of pozzolans and cement is recommended for Designing S.C.C.**

Durability : When **KEMFLOW SN 2008** is 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	1.2±0.01 at 20° c
Chloride content	Nil to BS . 5075

How to use

Theoretical dosage rate:

0.8 – 3 % by weight of cement The optimum dosage for **KEMFLOW SN 2008** should be determined by site trials with the particular concrete mix for S.C.C under prevailing ambient conditions. Site trails should always be compared with and without **KEMFLOW SN 2008** to quantify the true value of increase in workability and or strength gain. As a guide, the dosage will fall into one of two ranges dependent on use

Overdosing:

An overdose of **KEMFLOW SN 2008** 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.

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Direction for Use:

KEMFLOW SN 2008 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 SN 2008** 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 SN 2008** provided that such admixtures are added separately and the combination has no deleterious effect on the concrete.

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.

Cleaning:

Spillage of **KEMFLOW SN 2008** can be removed with water.

Health and Safety

- **KEMFLOW SN 2008** 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 SN 2008 Admixture is environmentally safe and contains no volatile organic compounds (VOCs).

KEMFLOW SN 2008 Admixture contains an anti-microbial biocide to inhibit mold and bacteria growth.