

Product Data Sheet
Edition 07.2014
Identification No. CA - 21



KEMPROOF C

Integral Liquid Waterproofer For Concrete

Description

KEMPROOF C is a high performance permeability reduction admixture for concrete . It combines profiling materials with powerful water reducing agents and water proofing chemicals.

The pores are filled with insoluble crystals and the cement particles are more thoroughly dispersed and hydrated to improve impermeability against high water pressure.

Standards :
according to ASTM C-494 Type A.

Where to use

KEMPROOF C is recommended for use in water - retaining structure such as :

- Mass concrete.
- Dams, reservoirs, etc.
- Below ground waterproofing e.g. basements and car parks.
- Swimming pools and water tanks.
- Above ground waterproofing e.g. floor topping and cement renders.
- Canals and sewage works.

Advantages

- **KEMPROOF C** improves concrete resistance to water penetration under conditions of hydrostatic pressure.
- Improve workability and plasticity without .increased water content
- Cement renders are more easily applied.
- Improves concrete strength.
- Non-toxic and no harmful effects.
- Will not corrode steel reinforcement.
- No premixing of the material.
- Used with all types of Portland cement.
- Compatible with other admixtures.
- Improved water tightness

Technical data

Nitrate content	Nil
Color	Red Brown
Specific gravity	1.05 - 1.1
Chloride content	Nil to BS . 5075
Freezing point	-10° C

How to use

Theoretical dosage rate:

0.5% by weight of cement per cubic meter
KEMPROOF C is compatible with all types of Portland Cement including S.R.C...

Overdosing:

An overdose of **KEMPROOF C** 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:

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

Cleaning:

Spillage of **KEMPROOF C** can be removed with water.

Packaging:

Available in 25 kg. pails or 220 kg. drums.

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

- **KEMPROOF C** 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

KEMPROOF C Admixture is environmentally safe and contains no volatile organic compounds (VOCs).

KEMPROOF C Admixture contains an anti-microbial biocide to inhibit mold and bacteria growth.