

Product Data Sheet
Edition 07.2014
Identification No. CA - 22



KEMPROOF C/ POWDER

Free Flowing ,White, Waterproofing Powder

Description

KEMPROOF C/POWDER is a high performance permeability reduction free flowing ,white powder admixture that have been specially designed for use with Portland cement concrete, mortars and renders. 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. The admixture is entirely free of chlorides or nitrates.

Standards :

according to ASTM C-494 Type A.

Where to use

KEMPROOF C/POWDER is used:

- In mass concrete, Dams and reservoirs, etc.
- To waterproof pre-cast concrete, and concrete masonry blocks during manufacture.
- Below ground waterproofing e.g. basements and car parks.
- To waterproof cement renders and in-site concrete.
- Swimming pools and water tanks.
- As an integral waterproofer in mortar joins and plaster renders which may be subject to hydrostatic pressure or extreme dampness.
- Above ground waterproofing e.g. floor topping and cement renders.
- To provide long-term concrete durability.

Advantages

KEMPROOF C/POWDER improves concrete resistance to water penetration under conditions of hydrostatic pressure.

KEMPROOF C/POWDER provides the following advantages :

- Improved workability and plasticity.
- Produces waterproof, impermeable and durable concrete.
- Cement renders are more easily applied.
- Does not adversely affect the setting time of cement, or reduce the strength of concrete.
- Increases ultimate compressive and tensile strengths without increase in cement content .
- Economical, non flammable, non toxic, user friendly and safe to use.
- Reduces bleed and segregation.
- Will not corrode steel reinforcement.
- Improves resistance to sulphate, chloride and chemical attack.
- Used with all types of Portland cement.
- Compatible with other admixtures

Properties

Color	White powder
Density Kg/L	0.9±0.1
Chloride & nitrate Content	Nil
Effect on steel	Nil

How to use

Theoretical dosage rate:

The optimum dosage of **KEMPROOF C/POWDER** to meet specific requirements should always be determined by trials using materials and conditions that will be experienced in use.

As a guide normal dosages of **KEMPROOF C/POWDER** should be in the range 1 –3 % by weight of cement per cubic meter.

To obtain maximum benefit it is recommended that the water cement ratio should not exceed 0.40.

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**Direction for Use:**

KEMPROOF C/POWDER should be added to the cement mortar or concrete mix during the mixing process by hand sprinkling or mechanical means

It is essential that good concreting practice is performed and maintained at every stage of the application process. **Cleaning:**

Application tools should be washed with water immediately after using.

Packaging:

Available in 1 , 5 , 20 sacks.

Shelf life & Storage:

KEMPROOF C/POWDER has a shelf life at least 12 months, in original sealed containers, also it must be Protect from direct sunlight.

Health and Safety

- **KEMPROOF C/POWDER** is non-toxic if come in contact with skin.
- Use gloves to avoid contact with skins.
- 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.

Environmental Considerations

KEMPROOF C/POWDER is environmentally safe .