



Product Information Sheet

LITHKEM

Lithkem is a specially formulated, powder set accelerator designed to reduce setting times and increase early mechanical strengths, in a wide range of mortars based on Calcium Aluminate Cement (CAC) and Ordinary Portland Cement (OPC).

DESCRIPTION

Lithkem is a cost effective, setting accelerator designed to increase the hydration of calcium aluminate cement, providing reduced early setting times and increased early flexural and compressive strengths.

Lithkem increases the formation of calcium aluminate hydrates in [CAC/OPC] binder systems and increases the formation of ettringite in [CAC/OPC/CS] binder systems.

BENEFITS

Key benefits of **Lithkem** are:



**SIGNIFICANTLY REDUCES
SETTING TIMES**



**ENHANCES EARLY
MECHANICAL STRENGTHS**



**EFFECTIVE IN
CAC-BASED MORTARS**



**COST-EFFECTIVE
ALTERNATIVE TO LITHIUM
CARBONATE**



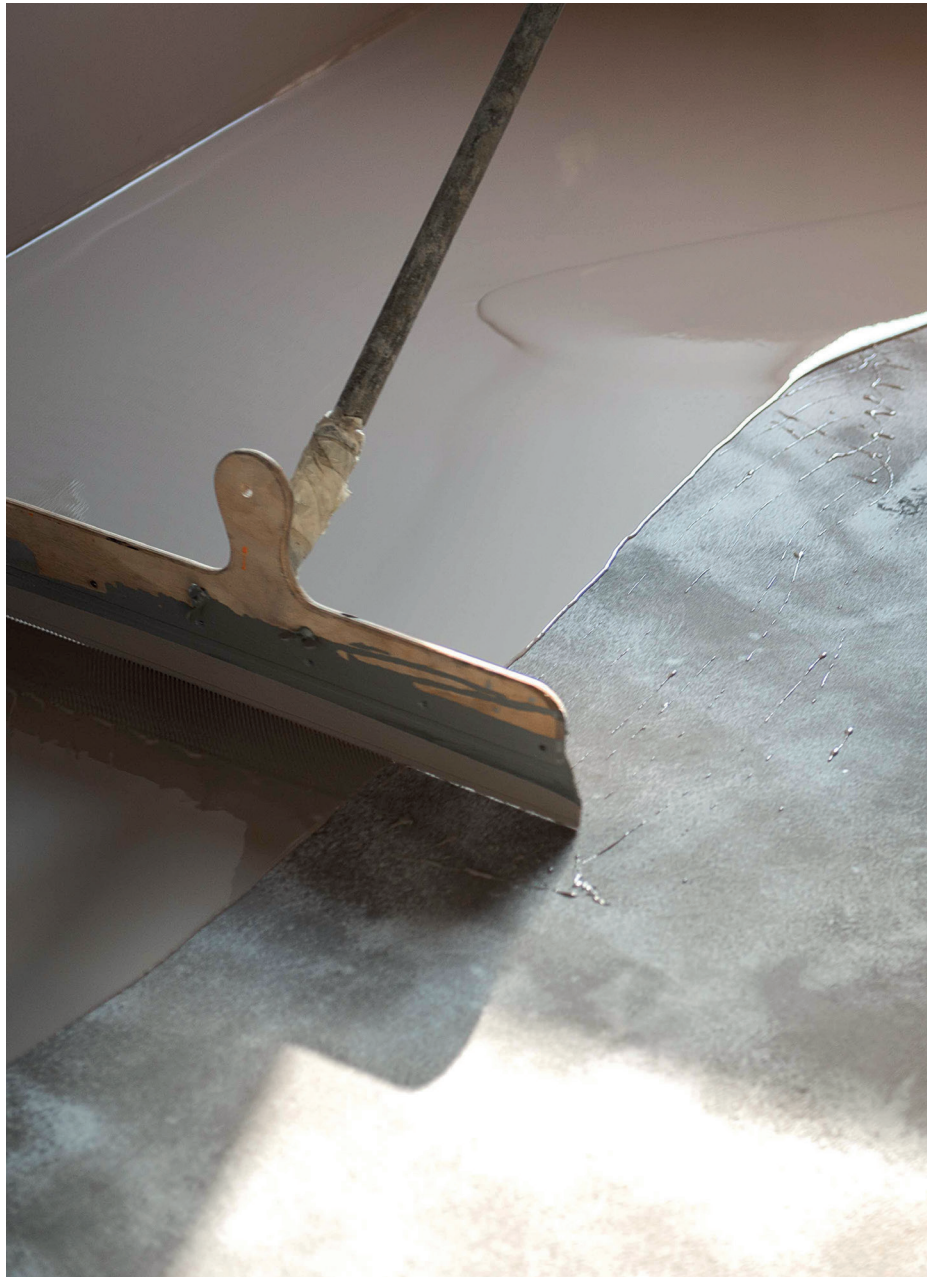
APPLICATIONS

Lithkem is formulated for use in fast setting mortars based on calcium aluminate cement such as self-levelling underlayments (SLU), rapid repair mortars and fast-setting tile adhesives / grouts. Lithkem is effective in CAC-rich systems.

ADDITION RATES

Dosage rate is dependent on mix design, binder content, ambient temperatures and the formulation aim for open / set times etc. Natural variations found in hydraulic binders will also affect the required dose. Trials should be undertaken out to determine the optimum dosage levels.

As an initial guide, an addition level of
- **0.1 - 0.5% by weight of formulation is recommended (as a starting point).**



STORAGE

Lithkem should be stored in cool, dry conditions. Unopened bags, if stored correctly, have a minimum shelf life of 12 months.

PACKAGING

Lithkem is supplied in 25kg bags with inner polyethylene liner. 40x 25kg bags per pallet.

HANDLING

Full MSDS available on request. H302: Harmful if swallowed. H319: Causes serious eye irritation. Wear protective gloves/protective clothing/eye protection/face protection.



WARNING



COMPATIBILITY

Lithkem is suitable for use with all cement types and hydraulic binders, including ground granulated blast-furnace slag (GGBS), pulverised fly ash (PFA) and gypsum.

TECHNICAL DATA

Composition

Inorganic compounds

Appearance

Fine off - white powder

Bulk Density (g/ml)

Approx. 0.65

Cemkem is part of the Rakem Group. The Group specialises in the distribution of raw materials and formulated products to the coatings, construction and chemical industry.



Chemical distributor to
the coatings, plastics and
inks sector



Confidential toll
manufacturer of water-
based products



Specialist distributor to
the cement and
horticulture sector

With over 20 years experience within the construction industry, Cemkem's product portfolio has been formulated to enhance and improve construction products, with the aim to benefit the manufacturer, the customer and most importantly the end-user. The Group aims for consistent and constant development across all raw materials and finished products.