

XcelCon Liquid Technical Data Sheet

Set Accelerating Admixture

Product Description

XcelCon Liquid is a quick setting, liquid admixture which brings about rapid setting and hardening of Portland cement mixes.

Uses

XcelCon Liquid is used where rapid setting of Portland cement is required, such as:

- Sealing of leaking joints in brickwork
- Quick patching of plaster or mortar
- Fast setting and hardening of unreinforced concrete

Advantages

- Easy to use
- Economical
- Induces rapid setting
- Increased mechanical strengths

Product Data

Appearance Liquid
Colour Opaque

Technical Data

Chemical Base Calcium Chloride
Density 1.2 kg/litre (at +25°C)
Effect on Setting Rapid acceleration
Effect of Overdosing Flash set

Physical Properties

Setting Times

Setting Times	1:4 Cement Mortar	25 Mpa Concrete
	Setting Time	Setting Time
1 Litre/50 kg cement	390 min	290 min
3 Litre/50 kg cement	280 min	240 min
5 Litre/50 kg cement	240 min	170 min
Control	420 min	310 min

Application Details

Consumption / Dosage 1 – 5 Litres per 50 kg cement.
Recommended dosage is 2 Litre per 50 kg cement

Application Instructions

Dispensing **XcelCon Liquid** is added to the gauging water.

Application Method/Tools

Ensure that **XcelCon Liquid** is thoroughly mixed prior to use.
Add **XcelCon Liquid** to the clean mixing water and stir thoroughly before adding to the mortar/concrete mix. The volume of **XcelCon Liquid** depends on the required setting time. For cement mortars it is advisable to use a 1:4 cement sand mix. For concrete, a minimum of 300kg/m³ cement is recommended, with a minimum 28 day compressive strength of 25Mpa.

Leak Plugging

Add approximately 3 parts fresh Portland cement to 1 part XcelCon Liquid and mix thoroughly until plastic consistency is achieved (+ 30 seconds). Form a plug and compress it into the cavity, applying pressure continuously for approximately 2 minutes until cement has set.

Rapid setting and Hardening

Add the **XcelCon Liquid** and water mixture to the dry cement mortar/concrete mixing thoroughly and quickly until a homogeneous mix is achieved. Place in position immediately. Do not apply loads or traffic for at least 6 hours.

Cleaning of Tools

Clean all tools and application equipment with water immediately after use.
Hardened / cured material can only be mechanically removed.

Notes on Application / Limitations

XcelCon Liquid contains calcium chloride and should not be used in concrete or mortar which has reinforcing bars or comes into direct contact with steel.

XcelCon Liquid should not be added to dry cement.

XcelCon Liquid should be added with the mixing water or introduced at the end of the mixing process.

Before application, suitability tests must be performed.

Packaging

5 Litre and 25 Litre plastic Jerry cans

Shelf Life

12 months from date of production if stored properly in undamaged containers, in dry conditions at temperatures between +5°C and +25°C.

XcelCon Liquid



Storage Conditions

Protect from direct sunlight and frost.

Health and Safety Information

Protective Measures

To avoid rare allergic reactions or burns, wear protective gloves. Change soiled work clothes and wash hands before eating and after finishing work.

Local regulations as well as Health and Safety advice on packaging labels must be observed.

Important Notes

Left over material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.

Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the Safety Data Sheet.

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