

MINING / CONSTRUCTION

Capcem™ Anchor Pack

CEMENTITIOUS ANCHOR GROUT

DESCRIPTION

Each Capcem™ Anchor Pack contains a dry powder blend formulated from cement, graded fillers and additives. These impart properties of controlled set and fast strength gain. The product requires only the addition of the supplied liquid to make a free-flowing anchor grout.

APPLICATION AND USE

Capcem™ Anchor Pack grout is pourable cement grout for fixing of machinery anchoring bolts.

ADVANTAGES

- Rapid strength gain ensures early in-service time
- Chloride free, non-corrosive
- Cement based and solvent free, non-flammable and non-toxic
- Easy to use



TECHNICAL DATA

WORKING TIME

The grout should be placed within 10 minutes after adding liquid.

RAPID SET

Setting time tested in accordance with SANS 50916-3.

TYPICAL SETTING TIMES

Curing Temperature (°C)	Initial Set (Minutes)
5	17
25	14
35	13

LABORATORY SETTING TIMES

Temp °C	Initial set (min)	Final set (min)
25	14	16

TYPICAL STRENGTH GAIN AT 25°C

Temp °C	Compressive strength MPa					
	1 hr	2 hrs	1 day	7 days	28 days	56 days
25	21	27	27	43	60	65

TYPICAL BOND STRENGTH

Test parameters: Bonding of a 250 mm length of 16 mm rebar

Temp °C	Bond Strength @ 1 hour (Tonnes)
25	20

APPLICATION METHOD

1. Hole Preparation

Optimum performance of Capcem™ Anchor Pack requires rough sided, dry and dust free holes. Use of rotary percussive drills with air or water flushing is recommended. Blow the hole clear of water and loose material.

2. Bar Preparation

All bars should preferably be degreased and all flaky rust removed.

3. Mixing

Mixing may be carried out manually or mechanically. Remove the polythene bag containing the anchor grout from the plastic pail supplied. Pour in the full quantity of the liquid from the bottle into the pail. Slowly add the Capcem™ Anchor Pack powder to the liquid and mix continuously for at least two minutes until the material is well mixed.

The wall of the pail should then be scraped down to ensure components do not remain around the side. Mixing should continue for another two minutes. When a smooth, even consistency is achieved, the grout is ready for use and should be placed within 10 minutes of mixing. Do not add water.

4. Installation

The grout should be poured steadily into the prepared holes. The anchor bar is then pressed into the hole to the required depth. Slight agitation of the bar will assist in achieving a complete bond. The bar should then be left undisturbed in the required position until the grout is set.

5. Cleaning

Equipment can be cleaned with water before the grout sets. Hardened grout should be removed mechanically.

SAFETY INSTRUCTIONS AND LIMITATIONS

Capcem™ Anchor Pack is alkaline and non-toxic. Use of gloves and goggles is recommended. Splashes should be removed from skin and eyes by washing with plenty of clean water. In case of splashes in the eyes, medical attention should be sought immediately, refer to Material Safety Data Sheet.

PACKAGING AND TRANSPORTATION

Supplied in a 10 litre polyethylene mixing pail containing grout in a polythene bag and liquid in a bottle.

Pack Size (kg)	Mix Liquid (Litre)	Volume Yield (Litre)
9	1.35	4.9

STORAGE AND SHELF LIFE

Capcem™ Anchor Pack has a shelf life of 12 months when stored in cool, dry, conditions, unopened.

DISPOSAL

Follow local regulations.

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