

High yield pack stressing grouts

Uses

Single component products for monolithic packing and pre-stressing of timber packs and timber props.

Advantages

- Single component system allows the use of simple placing equipment.
- High yield improves cost effectiveness and minimises transport requirements.
- Cement based, non-flammable and non-toxic.

Description

CAPCEM ® 1 and PS 2 Pre-stressing grouts are rapid hardening, single component used primarily for timber pack pre-stressing. Mixed with the correct quantity of water as tabulated, the grouts are designed to gel within a few minutes and have a pumping life of 20 minutes minimum at 25°C.

Properties

Compressive strength (UCS Typical, MPa)

| Time | Industry Standard (PSI) | PS 1 | PS 2 |
|----------|-------------------------|------|------|
| 2 hours | 0.25 | 0.90 | 0.50 |
| 24 hours | 0.90 | 2.00 | 1.30 |
| 7 days | 3.00 | 3.80 | 3.80 |

Bleed Water: the grouts are designed to have <1% bleed water after 30 minutes.

Application Instructions

The grout and water when mixed in the following quantities in a suitable mixer such as the MINOVA MIXING SCROLLER tank and pump, and pumped within 20 minutes of mixing. The grout should be used with MINOVA non-weeping pre-stressing bags.

Cleaning

Equipment and hose pipes should be flushed with water immediately after the pumping operation stops.

Estimating

| Pack Size (kgs) | | Mix Water (litres) | Water-powder ratio | Grout Yield (Litres) |
|-----------------|----|--------------------|--------------------|----------------------|
| PS1 : | 13 | 27 | 2.07:1 | 25 |
| PS2 : | 11 | 27 | 2.45:1 | 30 |

Storage/Shelf life

CAPCEM ® PS 1 and PS 2 grouts have a shelf life of 12 months if kept in a cool store in unopened bags.

Storage conditions

Do not store PS 1 or PS 2 in the open as ultra violet radiation will damage the packaging, allowing moisture penetration which will drastically reduce shelf life and cause premature hardening of the grout.

Precautions

Health and Safety

As both products are alkaline, the wearing of gloves and goggles is recommended. Wash any splashes to the eyes with plenty of clean water and seek medical advice immediately. Refer to Material Safety Data Sheet.

Technical Support

Minova RSA provides a technical advisory service by a team of specialists in the field. The service includes on site assistance and advice on evaluation trials and laboratory work.

Additional information

Minova RSA is a market leader specialising in the supply of high performance chemical products for the mining and tunnelling industries.

The Minova RSA range of mining products includes backfill systems, bagged cement products, high yield grouts, mine coatings, equipment and accessories for which a product brochure is available on request.

Important note

Minova RSA products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Minova RSA endeavours to ensure that any advice, recommendation, specification or information it may

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