

TECHNICAL DATA SHEET

Rock Support Systems Slow Set

Encapsulated, Ready-to-use, Portland Cement Mechanical Rock Support Grout for Mining and Tunnelling Industries

Description

Rock Support Systems Slow Set is an encapsulated Portland cement rock support grout material which, when submerged in water for approximately 3 minutes and then inserted into the anchor hole, achieves desired rock bolt support.

Typical Applications

- Where quick strength fixing of anchor bolts into rock, concrete, masonry or other material of sufficient strength will take the loading required.
- Rock Support Systems Slow Set can be applied into vertical and horizontal holes.

Advantages

- Rock Support Systems Slow Set Capsules are easy to apply.
- High impermeability, preventing water and moisture penetration, thereby eliminating corrosion.
 - No added Chlorides, Nitrates, Sulphates or Gypsum.
 - Rock Support Systems Slow Set is non-toxic.

Typical Results

Bond Pull-out (kN)

The bond pull-out (kN) using a 16 mm diameter rebar grouted in a 250mm x 50mm internal diameter pipe is actually a measure of the shear strength of the Rock Support Systems Slow Set Grout.

The following are typical laboratory results at a room temperature of 25°C:

AGE	BOND STRENGTH (kN)	AGE	BOND STRENGTH (kN)
24 hours	50 kN	7 days	70 kN
3 days	60 kN	28 days	100 kN

Setting Times (Tested in accordance with SANS 1745: 2003)

Initial Set:240 Minutes

Final Set:300 Minutes

Directions for use

Submerge the required number of Rock Support Systems Slow Set Capsules in water for approximately 3 minutes (until the air bubbles stop), allowing complete absorption. The entire hole must be filled with Rock Support Systems Slow Set Capsules. Push the specified bar, rope dowel or shepherd's crook through the capsules to the length of the hole and leave to set.

Packaging

Supplied in woven polypropylene bags with 2 waterproof inner liner that contain 20 capsules each. 100 bags per Duffel top Bulk Bag to protect against the elements.

Quality Assurance

Rock Support Systems Mining Supplies Pty. Ltd. production and testing programs comply with all local (SANS 1745: 2003) and international testing standards.

