

A P P L I E D

concrete
SOLUTIONS

ACS RAPIDSEAL VCD GROUT

NEW AGE TECHNOLOGY GROUT

CONSTANT PERFORMANCE

DESCRIPTION

ACS Rapidseal VCD Grout has been specifically designed to enable the installation of a cost effective and permanent sealing system within underground coal mines - for the purpose of ventilation control and ground support.

The non toxic product is installed using a Langley grout placer pump or similar.

By adjusting the water content of water to powder ratios from 1:1 up to 2:1, Rapidseal VCD Grout will offer varying amounts of permeability and strength values. This characteristic enables the product to be used for a diverse range of applications.

RECOMMENDED USES

- Plug seals in Ventilation Control
- Void filling in bulkheads
- Crack filling and soil stabilisation
- Cavity fill in goaf area
- Rib stabilisation

FEATURES AND BENEFITS

- Easy and safe to use
- Labour saving
- Dust free
- Strong and permeable
- Low shrinkage
- Fast setting
- Fast gel times
- Medium yield (depending on water addition)

PACKAGING

ACS Rapidseal VCD Grout is available in 20kg bags and 950kg bulk bags.

DOSAGE RATES

Water : Powder Ratio	Gel Time (minutes)	S/G (wet) kg/m ³	20kg bags/m ³
1:1	3-5	1480	37
1.5:1	5-7	1480	27
1.75:1	7-10	1480	22
2:1	10-13	1000	17

TECHNICAL PROPERTIES

Appearance	Grey Powder
Solubility	Insoluble in water
Density	3.1
pH Value > 1:1	>11
Flammability	Non-Flammable

Compressive Strength (MPa) AS1012.14

Age	1:1	1.5:1	1.75:1	2:1
1 hour	7.1	1.6	0.8	0.0
2 hours	8.8	2.9	1.8	0.7
3 hours	9.5	3.9	2.3	1.1
24 hours	14.0	7.5	5.1	3.3
7 days	20.5	10.5	5.8	3.4
28 days	25.5	12.5	5.9	3.6

SUBSTRATE PREPARATION

All areas to be treated with ACS Rapidseal VCD Grout should be clean and free from debris and loose material prior to application.

APPLICATION

Use a Langley or similar placer pump. Ensure sufficient air and water is available to the job site (please read notes).

The air volume should be no less than 80psi and the water volume should be tested before commencing the job, to ensure sufficient flow for project application.

Note: Ensure continuous air supply pressure at the placer pump is no less than 80psi (550 KPa/5.5 bar). Use of a 2" (Bull Hose) approved compressed air supply hose is recommended and do not reduce couplings or fittings.

The product relies on aggressive agitation at the pump to ensure adequate product mixing has occurred .

The grout should be run through 60 metres minimum length x 25mm i.d. poly pipe.

CLEANING

All equipment should be washed with water at completion of job. Do not allow grout to sit in pump.

STORAGE

If stored in a cool, dry environment the product should keep for up to six months. The shelf life of the product may be reduced if subjected to high temperatures, high humidity or damp environments.

HEALTH AND SAFETY

During use, avoid inhalation of dust and contact with the skin and eyes. Wear suitable clothing, gloves, eye protection and respiratory protective equipment.

If contact with the skin occurs, thoroughly clean the area with plenty of fresh water and soap. In case of contact with the eyes rinse with plenty of fresh water and seek medical advice.

If swallowed, seek medical attention immediately - do not induce vomiting.

For further information consult the Material Safety Data Sheet (MSDS) and read the product label carefully before use.

MSDS documents are available by phoning 1800 077 744.



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PLEASE NOTE

The information given in this data sheet is based on our current knowledge of the product when properly stored, handled and applied. We cannot guarantee that the product will be suitable, effective or safe when used for any purpose other than its stated uses.

To the extent that it is lawful, we exclude warranties implied by law and limit our liability to the cost of replacing the product. We accept no responsibility for loss or injury caused by improper use, incompetent preparation, inexpert or negligent application, or ordinary wear and tear.

Service or advice given by our staff should not amount to responsibility for the project - since the owner, or their contractor (and not River Sands), is responsible for procedures relating to the application of the product.

APPLIED CONCRETE SOLUTIONS
A Division of River Sands Pty Ltd

Corner Riverland and Monte-Khoury Drive,
Loganholme QLD 4129, Australia

Brisbane: (07) 3412 8111
Sydney: (02) 9677 1056
Melbourne: (03) 9311 9225
Perth: 0423 023 164

Toll Free Helpline: 1800 077 744
www.appliedconcretesolutions.com.au