

Specialist cement products



Specialist Cement Products
& Equipment Hire

www.readergrout.co.uk

Specialists in cement products



Introduction

Reader Grout & Equipment have been manufacturing cement products, sprayed concretes and equipment to the mining and civil engineering industries since 1985 and is one of the most established cement products and machinery manufacturing facilities of its kind in the United Kingdom.

The company operates from two factories in Nottinghamshire, England, fully equipped with a modern cement products plant including a research and development laboratory for the formulation of cement products to customers' individual needs. A range of mixing, pumping and placing machinery is designed and manufactured to ISO9001 standards. This machinery is available for sale or hire from the company's extensive hire fleet.



The constant emphasis placed on design, rigorous field trials, new equipment and product evaluation ensures the products supplied are of the highest quality to meet the demands of the civil engineering, building, mining and construction industries.

Reader will endeavour to meet all the customers cement product requirements from just one telephone call.



'Reader will endeavour to meet all the customers cement product requirements from just one telephone call'

Specialised Products

- Readerfast & Readerfast A
 - Patching Compounds
 - Floor Screeds
 - Tile Adhesive & Cement product
 - Sprayed Products
 - Mortars & Concretes
- Terrafast Grade 81

Tunnelling

- Tunnel Cement product
- Shaft Cement product
- Annulus Cement product
- Abandonment

High Performance

- Dry Sprayed Concrete
- Wet Sprayed Concrete
- Pressure Pointing
- Grout Gelling Additives
- Heritage Products

Mining

- Cement product
- Pump Packing
- Foam Cement product
- Cable Bolting
- Rock Bolting
- Cavity Filling
- One Shot Packing

Grout Mixers

- Hand Operated
- Paddle Mixers
- Colloidal Mixers

Grout Pumps

- Hand Operated
- Single Diaphragm
- Double Diaphragm

Nuclear Gauge Hire

Pressure Pointing Equipment
Continuous Placing Machines
Pressure Cement Product
Accessories

Readerfast & Readerfast A

READER



Readerfast and Readerfast A is a khaki/buff coloured calcium sulfoaluminate for use in high-performance cement systems.

When used with a suitable source of sulphate and lime, Readerfast reacts to produce a composite cement combining the properties of rapid setting, high early strength development, good late strength, increased resistance to sulfate attack, and depending on the mix proportions, either shrinkage compensation or positive expansion.

The calcium sulphate content is invariably provided in the form of ground synthetic anhydrite and the lime is present in the Portland cement component.



The Readerfast range gives controlled set, enhanced strengths, shrinkage compensation/expansion and sulfate resistance. Uses include any cement based products needing these properties - for example:

- Grouts
- Patching compounds
- Floor screeds
- Tile adhesive and grouting
- Sprayed products
- Mortars and concrete

'high strength and optimum performance where durability is crucial'

High performance

'a full range of products to suit virtually all applications'

Grouts, Mortars and Sprayed Concretes

Reader Grout & Equipment manufacture a range of cementitious grouts, mortars and sprayed concretes for use in the tunnelling, building and construction industries.

All Reader products are tested in accordance with specific procedures to ensure compliance to specification before despatch.

All products are subject to the controls of a BS EN ISO 9002 approved quality system.

High Flow Grouts

A range of super plasticised grouts designed for use where a high flow rate is required.

Typical Uses

- Long distance pumping
- Void penetration
- Ground stabilisation

Expanding Grouts

A range of expansion controlled grouts designed to overcome shrinkage or produce a high bond.

Typical Uses

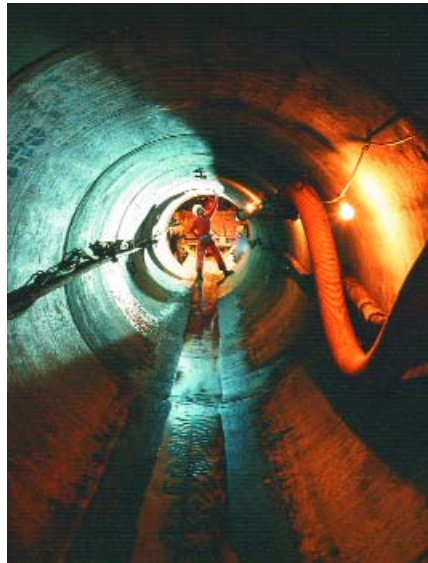
- Non shrink grouting
- Duct grouting

Grouts for General Use

A range of cementitious grouts designed for structural or non structural grouting applications in dry conditions.

Typical Uses

- Tunnel & shaft grouting
- Void filling
- Ground stabilisation
- Annulus grouting
- Abandonment



High Strength Grouts

A range of high strength grouts designed for structural grouting or where a high strength is required.

Typical Uses

- Structural grouting
- Strata reinforcement

Gel Modified Grouts

A range of thixotropic, shrink compensated grouts designed for use where early stiffening characteristics are required to control the flow of grout.

Typical Uses

- Tunnel & shaft grouting
- Pipelines
- Ground stabilisation
- Annulus grouting
- Grouting in mild water conditions

Accelerated Grouts

A range of accelerated grouts designed for use where the initial set of the grout needs to be controlled or

where a higher than normal early strength is required.

Typical Uses

- Shaft grouting
- Annulus grouting

Grouts for Wet Conditions

A range of polymer modified grouts designed for use in wet conditions, where the initial set of the grout needs to be controlled or where a higher than normal early strength is required.

Typical Uses

- Sea defence works
- Marine environment
- Tunnel & shaft grouting
- Ground stabilisation
- Annulus grouting

Waterproof Grouts

A range of waterproof grouts designed for use where reduced impermeability of the hardened grout is required.

Typical Uses

- Annulus grouting
- Strata grouting



Specialised Grouts and Mortars



Sprayed Concretes

A range of dry or wet sprayed concrete mixes designed for use in most environments to meet customers specific needs.

Typical Uses

- Tunnel refurbishment
- Concrete repairs
- Rail tunnels
- Ground & rock stabilisation
- Sea walls & marine structures

Pressure Pointing Mortars

A range of pointing mortars designed to be placed by mechanical means and to meet customers specific requirements.

Typical Uses

- Sea walls & marine structures
- Sewer renovation
- Rail tunnels and bridges
- Pavement and housing

Grout Gelling Additive

A powdered additive designed to provide an instantaneous gel to a mixed grout to reduce flow or provide support.

Typical Uses

- Ground stabilisation
- Tunnel and shaft grouting

Heritage Products

A range of products designed for use within ancient or historic structures.

Typical Uses

- Masonry wall grouting
- Waterways & lock walls
- Ancient monuments
- National Trust work



Mining Industries

Grouting

- Air wall construction
- Cavity filling
- Prevention of spontaneous combustion
- Stoppings

Pump Packing (long range)

- Roadway support
- Ventilation improvement

Cable Rock and Anchor Bolting

- For use in all mining and civil bolting applications

High Strength Cavity Filling

- Cavity filling where water conditions are minimal

One Shot Packing System

- Filling water and tight cavities

Foam Grouting

A cementitious grout designed to provide a high yield for non-structural grouting applications in dry conditions.

Typical Uses

- Mine Cavities
- Tunnel and shaft grouting
- Void filling
- Overbreak replacement



Terrafast Grade 81



Cost effective
Inorganic *Powder Based*
Non Toxic *Durable* *In-situ soils*
Project saving *Proven*

Manufactured under licence by Reader for RBI, Grade 81 is a unique system for soil stabilization that meets the need for a cost effective, reliable, easily applicable and successful product for road building projects in today's global community. Grade 81 was developed in 1990 through extensive and elaborate research and testing by internationally renowned scientists in the fields of soil binding, civil engineering and stabilization. Grade 81 provides the solution for stabilization problems in the creation of low cost roads, agricultural roads, parks and forest roads, foundation layers of motorways, and for waste binding.

Grade 81 is an inorganic, natural powder based, environmentally friendly soil stabiliser which, once applied to any type of soil from sand (beach to desert) to very active clays, modifies the engineering properties of that soil through a natural mechanism to stabilize, harden and waterproof the in-situ soil. The modification is irreversible making this system an extremely dependable and cost effective solution for road creation in today's environmentally conscious global community, and renders ever increasing costly maintenance



superfluous in terms of gravel and dirt roads which is an unimaginable concept. In terms of construction of new national roads, by using only in-situ material and not having to cart in

new material, the contribution in direct cost savings is immeasurable, to the point of national importance in any country. No nation can afford to be without it.

Advantages

- Highly cost-effective
- Use of in-situ material, therefore huge cost savings
- Successful stabilization on a wide range of soil types from clay to sandy gravel
- Irreversible crystal matrix formed
- Scientifically proven to be non-toxic and environmentally conscious
- Substantial increase in strength (CBR, USC) of the stabilized layer
- The plasticity (P1) and swell of the stabilized layer is reduced significantly
- Dramatically decreases construction times
- Proven application under stringent climatic conditions
- Highly durable layer that prevents dust formation
- Support from an experienced and knowledgeable technical staff

Grade 81 can be used in a highly diverse range:

- | | |
|-----------------------------------|------------------|
| ■ Forestry - Firebreaks, Roadways | ■ Agriculture |
| ■ Defence | ■ National Trust |
| ■ Small Airfields | ■ Carparks |
| ■ Mining Industries | ■ Footpaths |

The equipment

Proven Reliability

Product Range

The equipment is designed and manufactured to provide the user with reliable and easy to operate on-site equipment which requires minimal servicing.

- Paddle Mixers (pneumatic)
- Hand Operated Grout Mixers
- Colloidal Mixers
- Single Diaphragm Grout Pumps
- Double Diaphragm Grout Pumps
- Hand Operated Grout Pumps
- Mobile Cement product Units
- Pressure Pointing Equipment
- Continuous Placing Machines
- Pressure Cement product Accessories



The Service

- Advice and evaluation
- Equipment installation and training
- Design of special equipment
- After sales service
- Comprehensive hire service in the U.K.

Mobile Grouting Units

Reader's Mobile Grouting Units are custom-made to suit your requirements from a comprehensive range of specialist equipment.

Nuclear Gauge Hire

One of the largest hire centres for MC3 Portaprobe for compaction control testing. The MC-3 PORTAPROBE® is the most accurate, rugged, and easy to use density/moisture testing instrument available today



Delivering Quality



Manufacture

Manufacture is carried out at the Group's Sutton-in-Ashfield manufacturing facility using modern machinery and equipment to keep pace with the latest production and testing techniques.

Cementitious products are blended at the Group's grout plant facility, capable of producing a wide range of variable formulations.

All Readers products are supplied in papersacks, 1 tonne IBC bags or in bulk tankers.

Quality Assurance

All Reader machinery is designed and manufactured to BS EN ISO9001. Grouts are approved to BS EN ISO9002. All Reader products are tested in accordance with specific procedures to ensure compliance to specification prior to despatch. Reader work to the highest standards to maintain these approvals under the direction of a single Group Quality Assurance Manager.



READER

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