# Grout Mix





Grout Mix is a pre-blended powder mixture of Ordinary Portland Cement (CEM 1) and a premium grade high quality sodium carbonate activated Bentonite powder in a ratio of 2:1.

PACKAGING: 25kg paper bags, 40 bags per pallet.

## APPLICATIONS

Borehole s	sealing
------------	---------

Grouting

Isolating instrumentation and sampling zones

### FEATURES

Easy to use

Consistent mix quality

Easy to mix

High strength

Stable suspension

Rapid build up of viscosity

Can be used with traditional mixing equipment

Suitable for immediate use after mixing

Cement to BS EN 197-1 CEM 1

25kg bags

### PROPERTIES

	BENTONITE	CEMENT		
Colour	Light yellowish grey	Light grey		
Odour	None	None		
рН	8.5-10	12-14		
Specific Gravity	800 - 1100kg/m³	1400kg/m <sup>3</sup>		
Moisture Content	12%	<5%		
% by weight passing BS410 150 $\mu$ sieve	min 95%	min 95%		
MIXING				
Litres/water per bag	30	35	40	50
Water/solid ratio	1.2	1.4	1.6	2
Water density kg/m <sup>3</sup>	1340	1323	1315	1211
Yield per bag (litres)	32.8	41.1	50	70.6

### www.geosense.co.uk

## **Borehole Fill Material**

## **Mikolit B Bentonite Pellets**



Mikolit B<sup>®</sup> is a sealing pellet which requires no mixing or pumping. It is a patented clay-based pellet with a very low dust content.

It is a high grade bentonite pellet manufactured from a mix of activated calcium bentonites to provide a high swelling capacity of 180-200%.

All Mikolit B<sup>®</sup> pellets have excellent sinking qualities and are easy to use.

Pellet Size:± 8mm (D); 7-12mm(L) Processing Time: None Sinking Speed In Water: 21m/min Saturated Density:~1.70-1.80 t/m<sup>3</sup> Bulk Density:~1.0 t/m<sup>3</sup> Delayed Swelling Time:~ 12 minutes Swelling Capacity: 180-200% Swelling Pressure: 12-15 kN/m<sup>2</sup> Permeability:<10-12m/s

SHELF LIFE: Unlimited if unopened & kept in a dry location

PACKAGING: 25kg waterproof bags, 42 bags per Europallet (disposable). 500 & 1000kg 'Big Bags' also available

### APPLICATIONS

Borehole sealing

Isolating instrumentation and sampling zones

#### **FEATURES**

180-200% swelling capacity

Suitable for use in seawater

Pre-formed pellet

Delayed swelling

No grout loss

No grouting/mixing machines required

Simple & easy to use

Environmentally friendly

Low permeability

Dust-free

# Quantity table

Pipe Outside Diameter (mm)



### ESTIMATED AMOUNT OF MIKOLIT B REQUIRED KG/M

BOREHOL	.E DEPTH (mr	n)								
00	100	125	150	200	250	300	400	500	600	
0	8	12	18	31	49	70	125	195	280	
50	6	10	16	29	47	68	123	193	279	
100		4	10	23	41	62	117	187	273	
125			5	19	37	58	113	183	269	
160				11	29	50	105	175	261	
200					18	39	94	164	250	
250						21	76	146	232	
315							47	118	203	
400								70	156	
500									186	



Geosense Ltd, Nova House, Rougham Industrial Estate, Rougham, Bury St Edmunds, Suffolk IP30 9ND, England

www.geosense.co.uk e sales@geosense.co.uk t +44(0)1359 270457