Stuart Wells Limited

Geoseal™ Grouting Clay

Geoseal™ is a special grouting clay that is easy to mix and use, giving a conductivity of 0.68 watts/m/oC when mixed in water or up to 2.06 watts/m/oC when mixed with sand - see table below.

Geoseal™ has a low swell and slow yield with no flash set, making it ideal for use in Geothermal and sub soil sealing as it has a long working time and can be mixed easily using a wide variety of paddle or cyclone mixers and can be pumped using either a moving diaphragm and most piston pumps.

Geoseal™ provides excellent bore-hole sealing and fluid loss control, with long term stability and resistance to drying and because it remains plastic it will deform as the land moves and still maintain an excellent seal on the loop.

Applications: • Geothermal and other Grouting • Electrical Earthing • Cable and pipe protection

Typical Properties

Physical Properties		**Grout Properties** - for guidance only	
Physical Appearance	Light Brown powder	Filtrate Loss -ml	5-10
Moisture Content	12% ± 2%	PH	7.5 - 9.0
Specific Gravity	2.4 - 2.6	SG	1.16-1.74
Bulk Density	900 - 1100 kg/m^3	Permeability m/sec	<1x10^{-9}

Mixing

Grout without Thermal Enhancement

Water - Litres	**KG Geoseal**	**Final Vol - Litres**	**Conductivity - watts/m/°c**
120	2 bags	136	0.65 - 0.68
880	14 bags	1000	0.65 - 0.68

Thermally Enhanced Grout

Water - Litres	**Geoseal 20kg**	**Dry Sand 25kg**	**Final Vol - Litres**	**Conductivity - watts/m/°c**
80	1 bag	5 bags	138	1.43 - 1.54
87.5	1 bag	8 bags	176	1.68 - 1.82
Water - Litres	**Geoseal 20kg**	**Moist Sand 25kg**	**Final Vol - Litres**	**Conductivity - watts/m/°c**
75	1 bag	6 bags	143	1.50 - 1.62
80	1 bag	9 bags	178	1.73 - 1.98
80	1 bag	10 bags	188	1.86 - 2.06

Note: Quantities are quite critical and for best results the water should be accurately measured into the mixer. For best results shear the Geoseal well before adding the sand. Final conductivity depends on the type and quantity of sand used. Consult your Geoseal representative for further information.

Hole Size	**3”**	**4”**	**5”**	**6”**
Metres / m^3	219	123	79	55
Metres / 100 L	22	12	8	5.5

www.stuartwells.co.uk | 0845 642 1662 | enquiries@stuartwells.co.uk