



## Ronabond Geo Sheet

Bentonite Geotextile Sheet Waterproofing System

### Description

Ronabond Geo Sheet is a 3 component encapsulated bentonite geotextile membrane sheet suitable for waterproofing large construction areas such as basement structures and foundations plus municipal scale applications like reservoirs and landfill sites.

Manufactured from high purity sodium bentonite sandwiched between a tough water resistant woven base layer fabric and a highly permeable ductile non-woven top layer polyester fabric. Ronabond Geo Sheet quickly forms a stable and lasting barrier to water.



Supplied in large rolls that are effective in covering large areas quickly and economically without the need for handling the dry powder bentonite directly.

### Benefits

- ✘ Ideal for large scale waterproofing
- ✘ Flexible
- ✘ Economic
- ✘ Tough and durable
- ✘ Easy to install 'Rolls'
- ✘ Non-Hazardous
- ✘ Free from VOC's

### Uses

- ✘ Reservoirs
- ✘ Landfill Sites
- ✘ Foundations
- ✘ Below ground structures
- ✘ Landscaping

### Key Performance Indicators

- ✘ Resists static pressure up to 0.6MPa
- ✘ Permeability  $<5 \times 10^{-9}$

## Specification Clause

The Sheet Bentonite Geotextile Waterproofing System shall be Ronabond Geo Sheet by Ronacrete (Far East) Limited, tel. (852) 2865 5872. All materials to be applied strictly in accordance with manufacturer's instructions.

### Technical Data (at 25°C, lab conditions)

Tensile Strength	>8kN/m	Static Pressure	up to 0.6MPa
Clay Expansion	>25ml/2g	Grades	4kg to 6kg/m <sup>2</sup>
Puncture Strength	~320N/mm	Roll width:	3m to 7m available
Permeability	<5x10 <sup>-9</sup>		

## Application (\*Please Refer to the Method Statement and MSDS)

### Preparation

Surfaces to receive Ronabond Geo Sheet should be essentially flat and free from sharp edges. Subgrades containing angular rock, flint and other potentially damaging materials should be covered with a layer of Ronabond Geo Cushion.

### Installation

Rolls should be overlapped by at least 100mm.

Joints should be formed with the use of Bentonite slurry (mix 1 part bentonite powder with ~4 parts water) applied between and over the overlap and allowed to dry.

It is usual for the Ronabond Geo Sheet to be covered with a layer of subsequent construction be it backfill or poured concrete. In particular for volume water retaining construction such as reservoirs and water courses it is recommended that a layer of sand, sub-base, earth or even concrete blocks are used to secure the Ronabond Geo Sheet in place and offer resistance to the expansion of the bentonite when it gets wet.

For additional waterproofing performance Ronacrete recommend the installation of Ronabond HDPE Geo Sheet over the Ronabond Geo Sheet.

### Shelf Life and Storage

If Ronabond Geo Sheet is stored at temperatures between 10°C and 30°C and protected from water and mechanical damage then the shelf life is indefinite.

### Health and Safety

Ronabond Geo Sheet is low VOC and non-hazardous but the rolls can be large and extremely heavy. Use mechanical lifting equipment and never stand under, below or downslope from the roll.

### Technical Service and Support

Ronacrete provide free technical advice and support during design and installation of all systems for flooring, concrete repair, bonding, bedding and waterproofing. If you need any further information including method statement or additional technical data sheet, contact the Ronacrete Technical Department on (852) 2866 4365 or visit our web site [www.ronacrete.com.hk](http://www.ronacrete.com.hk).

### Guarantee

Ronacrete products are guaranteed fit for purpose and of merchantable quality.

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