



## NATURAL SODIUM BENTONITE GRANULES FOR REINFORCEMENT



BS Granules® are high swelling sodium bentonite clay granules. BS Granules®, immediately starts a rheological reaction that produces a highly colloidal suspension with excellent holding, sealing and lubricating performances when hydrated in site conditions. It is especially placed in overlap zones and critical areas for additional sealing in conjunction with BentoShield® waterproofing membranes. When in the presence of water, it reinforces the overlap areas by forming an impermeable and seamless waterproofing paste.

Grades of BS Granules® are also available for construction of piles, diaphragm walls, low permeability cut-off wall applications and assures the best performances with its unique composition.

### APPLICATIONS



Waterproofing is a system that must be viewed as a whole. In order to ensure the whole waterproofing system is working in perfect harmony, all the complex construction details should be safely solved particularly with professional auxiliary materials.

### APPLICATION AREAS

- > Sealing the horizontal laps of bentonite membrane applications.
- > Create secondary fillets at wall / slab junctions
- > Horizontal and vertical fillets inside and outside corners.
- > Seal BentoShield® membranes around pile caps and grade beams
- > Seal BentoShield® membrane around slab penetrations
- > Correct minor cracks in the substrate prior to the membrane application

Important : It should not be used to seal the laps of any thickness of film layers.

### ADVANTAGES

#### > Fast and easy application

Easily moulded waterproofing paste for irregular detailing. Immediate activation on contact with water to form a waterproof paste

#### > Environmentally friendly solution

Contains no solvents and hazardous ingredients. BS Granules® have no specific Occupational Exposure Limit.

#### > Active throughout the life of the structure

100% natural mineral permanently active under the confinement

### Substrate Preparation

BS Granules® can be directly applied to dry area, not into the standing water. The surface should be free of dirt, dust, oil or other contaminants. Excessive water addition or overdosing may cause bleeding or segregation.

### Application

It is simply sprinkled to the application area. If it will be used at vertical applications or need for detailing, BS Granules® are activated by wetting the dry granules and mixing until a paste is formed.

BS Granules® should always be activated using potable water.

### Consumption

Applied as a ¾" x ¾" (50mm x 50mm) triangular fillet : approx 55 ft (17 linear metres).

**ASSOCIATED PRODUCTS**

**BENTOSHIELD**

Range of bentonite waterproofing membranes



**WATERSTOP BS**

Bentonite swelling waterstop



**BS MESH**

U shaped expanded metal grid



**BENTOPASTE**

Expanding detailing mastic



**BS TAPE**

1 or 2-sided joint sealing tape



**BS Termination Strip**

Galvanized termination bar



**LIMITATIONS**

When exposed to rain, BS Granules® may dissolve out suddenly, it should not be left uncovered long period of time prior to concrete or backfill placement.

Selection of polymer modified range of BS Granules may be prudent, particularly where conditions of ground contamination exist.

**COMPATIBILITY**

BS Granules® may be combined with other products. Always conduct trials before combining products in specific mixes and contact the GEOMAS Technical Service Department for information and advice about any specific combinations.

**PACKAGING**

Available sizes are as below:

55 lb (25kg)	PE bags – 2200 lb (1000 kg/pallet)
88 lb (40 kg)	PE bags – 2640 lb (1200 kg/pallet)
2650 lb (1200kg)	Jumbo bags – 2640 lb (1200 kg)

**STORAGE**

BS Granules® should be stored in a dry, frost-free place in unopened, undamaged original packaging.

**HEALTH & SAFETY**

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.