

# TOP FLOWCRETE



## Plasticized Expanding Grout Admixture

### PRODUCT DESCRIPTION

**TOP Flowcrete** is a powdered admixture for use in cementitious grouts and concrete. It is formulated to produce improved grout quality and increased durability, whilst overcoming problems of settlement and plastic shrinkage using a gaseous expansion mechanism.

### USES

**TOP Flowcrete** should be used as a grout admixture for all cementitious mixes where restrained expansion is required. Typical uses are under-plate and bed grouting, space grouting, duct grouting and anchor bolt fixing.

### ADVANTAGES

- Provides a positive gaseous expansion to counteract shrinkage in cementitious grouts.
- High flow grout mixes obtained using TOP FLOWCRETE is easier to pump or place.
- Low water/cement ratio obtainable with TOP FLOWCRETE, reduces permeability, improves strength and durability.
- Produces cementitious grouts with excellent non-corrosive bonding and maximum bearing capacity.
- TOP FLOWCRETE contains no iron, chlorides or other harmful materials.

### TECHINICAL PROPERTIES

Color & Appearance	Brown Powder
Density	Approx 0.50 kg/dm <sup>3</sup>
Compressive Strength	23 Mpa at 7 days cement & Sand grout

	28.7 Mpa at 7 days Neat cement grout
Dosage	500gm/100kg cement

### PACKING

**TOP FlowCrete** is supplied in 250gm and 5Kg Bags.

### STORAGE

12 Months in Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost, Empty packs completely and dispose off carefully to protect our Environment.

### APPLICATION PROCEDURE

**Surface Preparation:** Clean the surface and remove any dust, unsound or contaminated material, plaster, oil, paint, grease, corrosion deposits or algae. All metal components to be in contact with grout must be free of rust, paint, or oils.

The areas that require injection grouting should be prepared thoroughly and locations of grout must be finalized.

Drill hole of required size into the structure and fix grouting nozzle. Allow nozzle to set.

**Addition Rate:**

Neat Cement Grouts:	250g <b>Flowcrete</b> per 50kg cement, equivalent to 0.5% by weight of cement.
1 : 1 Cement : Sand Grouts	250g <b>Flowcrete</b> per 50kg cement, equivalent to 0.5% by weight of cement.
Grouts having sand: cement ratio of 2: 1 or higher.	500g <b>Flowcrete</b> per 50kg of cement, equivalent to 1.0% by weight of cement.

**YIELD:**

OPC	0.5mm Sand	Water	Top Flowcrete	Approx Yield
50kg	-	22 litres	250g	36 litres
50kg	50kg	24 litres	250g	57 litres
50kg	100kg	26 litres	500g	80 litres

**Mixing:**

The required quantities of sand, cement and **Top Flowcrete** are batched together and mixed into the correct volume of water, using a mechanically powered mixer. Small quantities can be mixed using a slow speed electric drill fitted with a high shear paddle. Larger quantities require a purpose-designed grout mixer to achieve thorough mixing. Mix continuously for 5 minutes to ensure that a smooth homogenous grout is obtained.

It is important that there are sufficient materials, equipment and personnel are available to enable the grouting operation to be carried out continuously. Storage or holding facilities for the grout may be useful. However, they should be fitted with some means of agitation to maintain fluidity.

**Water Content:**

The plasticizing action of **Top Flowcrete** enables high flow grout mixes to be produced, using low water/cement ratios. Alternatively, water contents can be reduced whilst maintaining workability – a water reduction of 10-15% is typical.

**Overdosing:**

Slight overdosing will increase both workability and volume of gas liberated. Serious overdosing (2-3 times recommended values) causes retardation of set and strength development and frothing of the mix. In addition there is a major increase in expansion.

**CLEANING**

Clean all equipment with water immediately after use.

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