

# ALEXPLAST G10000



## High Range Water Reducing and Set Retarding Superplasticizer

### Description

**ALEXPLAST G10000** is a synthetic super Plasticizer high water reducing and retarding Admixture for concrete.

It contains a powerful super plasticizer that aggressively disperses cement particles which enabling the mixing water to perform more efficiently so it facilitate concrete transported and casted with little vibration.

### Uses

**ALEXPLAST G10000** is used wherever high quality concrete is demanded under difficult placing and climatic conditions and also in the following uses:

- To reduce permeability.
- Casting in hot climates.
- Ready mixed concrete.
- To produce high workability concrete.
- Pumped concrete.

### Advantages

**ALEXPLAST G10000** provides the following properties:

- Aids pumping by reducing line friction.
- Increases density and reduces porosity resulting in improved water penetration resistance.
- Increases cohesion, minimizes segregation and bleeding and gives improved surface finish.
- High quality surface finish.

- Eliminates shrinkage.
- Improves physical properties for concrete.
- Produces water proofing concrete.
- Chloride free.
- Improves durability.

### Standards

**ALEXPLAST G10000** complies with  
ASTM C494 Type G  
BS 5075 Part 3

### Properties

Colour	Dark Brown liquid	
Specific gravity	1.20 ± 0.02	20°C
Chloride content	Nil	
Water Reduction	Reduction up to 28% can be reached depending on materials used and mix design	
Toxicity	Non Toxic	
Compatibility	<b>ALEXPLAST G10000</b> is compatible with all types of Portland cements including SRC and other ALEXPLAST admixtures. Can be used with silica fume and other pozzolanic materials.	
Durability	When <b>ALEXPLAST G10000</b> is used for water reduction the increase in density and reduction of permeability improved durability and reduces porosity hence increase water proofing properties also resist salts which attack concrete.	

### **Direction for use:**

- **ALEXPLAST G10000** should be added to the mixing water prior to addition to the dry mix
- Never add **ALEXPLAST G10000** to dry cement or aggregate.
- Reduction of water is higher if the admixture is added to the concrete after 60-75% of the mixing water has been added.
- No extension to normal mixing time is necessary.

### **Dosage:**

Approximately 0.5-2.3 % by the weight of used cement.

Actual dosage rate of **ALEXPLAST G10000** Depends on:-

- Water/Cement ratio.
- Quality and type of cement and aggregates.

In all cases we recommended that trial mixes are carried out to determine the exact rate required.

### **Packaging:**

**ALEXPLAST G10000** Is supplied in 20 lit, 210 lit drums or 1000 lit bulks.

### **Guarantee:**

All precaution is taken in manufacture of each product to comply with the standard of each material.

The data sheet for each product for information only and may be corrected and no liability is accepted for it.

The results may have variation because the method of their use condition under which they are applied cannot be anticipated.

### **Technical Service:**

For any technical advice for using the **ALEXCHEM** contact the technical office.

### **Shelf life:**

Up to 12 months when stored as recommended.

### **Storage:**

Store in closed shaded dry area, out of direct sunlight and protect from extremes of temperature.

### **Safety precaution:**

- Avoid contact with eyes, mouth skin, and follow by washing soap and water. And any eye contamination should be washed thoroughly with plenty of water and immediate medical treatment sought.