

ALEXPLAST G1000



Super Plasticizing Admixture

Description

ALEXPLAST G1000 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

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

Advantages

- Aids pumping by reducing line friction.
- Increase density and reduces porosity resulting in improved water penetration resistance.
- Increase cohesion, minimizes segregation and bleeding and gives improved surface finish.
- High quality surface finish.
- Eliminate shrinkage.
- Improve physical properties for concrete.
- Produce water proofing concrete.
- Chloride free.
- Non toxic as it is water based.

- Compatible with all type of ordinary and sulphate resistant cement.
- Compatible with ALEXCHEM additives (Contact our technical office).

Standards

ALEXPLAST G1000 complies with ASTM C494 Types A and G

Properties

Colour	Dark Brown liquid	
Specific gravity	1.18±0.01	20°C
Chloride content	Nil	
Water Reduction	Reduction up to 20% can be reached depending on materials used and mix design	
Compatibility	Can be used with all types of Portland cements	
Durability	When ALEXPLAST G1000 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.	

Typical strength gain achieved when using ALEXPLAST G1000						
Mix	G1000 Dose	W/C	Slump mm	Compressive strength N/mm ²		
				1 day	7 days	28 days
Control		0.56	175	6.5	25	36
ALEXPLAST G1000	0.50%	0.42	175	8.5	28	40
ALEXPLAST G1000	1%	0.42	175	10	30	45

Typical results for slump improvement when using ALEXPLAST G1000			
Test	Dosage	W/C	Slump mm
Control		0.46	45
ALEXPLAST G1000	0.70%	0.42	175
ALEXPLAST G1000	1%	0.425	Collapse

Guide to Application

Application

ALEXPLAST G1000 should be added to the mixing water prior to addition to the dry mix

Coverage:

Approximately 0.5-2.0 % by the weight of used cement.

The dosage depends on mix design cement type, quality and size of used material and ambient temperature.

A site trial should be carried out to confirm the mix design.

Over dose:

Over dose increase the setting time.

Packing:

Is supplied in 20 lit, 210 lit drums, 1000 lit bulks.

Shelf life:

Up to 12 month when stored as Recommended

Storage:

Should be stored in shaded areas and is kept within the range 2 °C to 50 °C

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.

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.

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