

ALEXPLAST F10



Super Plasticizing High Range Water Reducing Admixture, Early Strength

Description

ALEXPLAST F10 is derived from sulphonated naphthalene. It contains a powerful super plasticizer that allow mixing water to be reduced and concrete strength to be enhanced significantly at early edges.

Uses

- To produce high workability concrete.
- In precast and prestressed concrete where early use of mould are required.
- To reduce permeability.
- Pumped concrete.
- Casting in hot climates.
- When pozzolonic material such as silica fume are used.

Advantages

- Aids pumping by reducing line friction.
- Increase density and reduces porosity resulting in improved water penetration resistance.
- Early strength seven days' results are obtained after three days, twenty eight days results are obtained after seven days.
- Increase cohesion, minimizes segregation and bleeding and gives improved surface finish.

- Enables precast concrete units to be demoulded after 12-16 hrs and earlier for heat/ Steam cured systems.
- No effect for setting time at recommended dose ages.
- Improve physical properties for concrete.
- Increase water proofing properties as it decrease the permeability.

Standards

ALEXPLAST F10 complies with ASTM C494 Types A and F
BS 5075 PART 3

Properties

Colour	Dark Brown liquid	
Specific gravity	1.22	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 F10 is used for water reduction the increase in density and reduction of permeability improved durability and reduces porosity	

Typical strength gain achieved when using ALEXPLAST F10						
Mix	F10 Dose	W/C	Slump mm	Compressive strength N/mm ²		
				1 day	7 days	28 days
Control		0.56	175	6.5	25	35
ALEXPLAST F10	0.50%	0.45	175	10	30	40
ALEXPLAST F10	1%	0.45	175	15	35	48

Typical results for slump improvement when using ALEXPLAST F10			
Test	Dosage	W/C	Slump mm
Control		0.46	45
ALEXPLAST F10	0.70%	0.45	175
ALEXPLAST F10	1%	0.45	Collapse

Guide to Application

Mixing:

ALEXPLAST F10 should be added to the mixing water prior to dry mix added.

Coverage:

0.5 to 2.0 lit per 100 kg of used cement
The optimum dosage for **ALEXPLAST F10** should be determined by site trials with the particular concrete mix under prevailing conditions.

Packing:

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

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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