

# ALEXPLAST F30



## Super Plasticizing High Range Water Reducing Admixture, Early Strength

### Description

**ALEXPLAST F30** 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 ages.

### Uses

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

### Advantages

- Increase cohesion, minimizes segregation and bleeding and gives improved surface finish.
- 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.

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

### Standards

**ALEXPLAST F30** complies with  
ASTM C494 Types A and F  
BS 5075 PART 3

### Properties

|                  |  |      |
|------------------|--|------|
| Colour           | Dark Brown liquid  |      |
| Specific gravity | 1.17±0.02  | 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 <b>ALEXPLAST F30</b> 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 F30 |          |      |          |  |        |         |
|---|----------|------|----------|--|--------|---------|
| Mix   | F30 Dose | W/C  | Slump mm | Compressive strength N/mm <sup>2</sup> |        |         |
|   |          |      |          | 1 day                                  | 7 days | 28 days |
| Control   |          | 0.56 | 175      | 7.0                                    | 26     | 38      |
| ALEXPLAST F30   | 0.50%    | 0.45 | 175      | 10.5                                   | 32     | 42      |
| ALEXPLAST F30   | 1%       | 0.45 | 175      | 16                                     | 38     | 50      |

| Typical results for slump improvement when using ALEXPLAST F30 |        |      |          |
|--|--------|------|----------|
| Test   | Dosage | W/C  | Slump mm |
| Control  |        | 0.48 | 45       |
| ALEXPLAST F30  | 0.70%  | 0.45 | 175      |
| ALEXPLAST F30  | 1%     | 0.45 | Collapse |

## Guide to Application

### Mixing:

**ALEXPLAST F30** 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 F30** 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.