

## High-range superplasticizer for fluid concrete

### PRODUCT

**Admix CF 50 S** is a chloride free, high-range, naphthalene based superplasticizer, specially formulated for high early strength concrete mixture. **Admix CF 50 S** has a powerful deflocculating and dispersing action with cement which facilitates the production of fluid, self-consolidating concrete without segregation from a no-slump concrete mixture.

### PROPERTIES

**Admix CF 50 S** produces:

- Concrete of similar workability with 20%-25% less water
- Increase concrete cohesion
- Increase compressive, tensile, and flexural strengths
- High early strength development, especially at low W/C ratios

### SCOPE OF USE

**Admix CF 50 S** is recommended for all cement types of ordinary portland cement and sulfate-resisting cement in the following areas:

- Heavily reinforced concrete works
- Paving and industrial floor
- Ready-mix concrete
- All concrete requiring a fluid consistency.
- Concrete with low W/C ratios.
- Precast concrete
- Works well with silica fume and GGBS
- Structures with close reinforcement where vibratory efforts are ineffective
- Can be used with white cement

### CHARACTERISTICS

Appearance	Brown liquid.
Specific gravity at 20°C	1.190 to 1.200
Chloride Content	Zero to BS 5075
Air entrainment	Less than 1.0% additional air is entrained

### APPLICABLE STANDARDS

**Admix CF 50 S** complies with:

ASTM C 494 Type F  
BS 5075 Part 1, BS EN 934, Part 2.

### INSTRUCTIONS FOR USE

**Admix CF 50 S** is totally miscible in water. No extension to the mixing time is necessary. Do not add to dry cement.

**Admix CF 50 S** can be used at site to fluidify the concrete mixture to the required workability. Make sure that the mixture is agitated at not less than 1 rpm for 2 minutes to

attain consistency before casting.

For high early strength of concrete mixture, use with lower w/cm on higher **Admix CF 50 S** dosage.

### DOSAGE RATES

Trials should be conducted to determine the optimum dosage of **Admix CF 50 S** for a particular mixture. A dosage of 600 ml to 2100ml per 100 kg of cement is recommended.

The required dosage for a specific job with controlled delay in setting and workability should be determined by in situ trials.

### EFFECTS OF OVER DOSING

A severe over dose of **Admix CF 50 S** will result in the following:

- Delay of initial and final setting times.
- Slight increase in air entrainment
- Increase in workability
- Increase in early strength
- An increase in ultimate strength

### COMPATIBILITY

**Admix CF 50 S** can be used in all types of Portland and sulphate resisting cement. For use with other cement contact Company's technical service department.

**Admix CF 50 S** should be dispensed directly into the mixer and should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing **Admix CF 50 S**, they must be dispensed separately. Consult company's technical service Dept.

### SPECIFICATION CLAUSE

**Admix CF 50 S**, a plasticizing concrete admixture is manufactured to the following specification:

**Admix CF 50 S** can be used in all concrete mixes as mentioned at a dosage between 600 ml to 2100 ml per 100 kg of cement in accordance with the manufacture's instructions.

### DISPENSING

It is preferable that liquid admixtures for concrete should be introduced into a mixer by means of automatic dispensing equipment. Such equipment can be supplied by our company.

### PACKAGING

**Admix CF 50 S** is supplied in:

Bulk, barrels.

Storage tanks can be provided for higher volume.

## STORAGE

**Admix CF 50 S** can be stored up to 1 year from manufacturing date under cover, out of direct sunlight and protected from extreme temperatures.

## HEALTH & SAFETY

In case of frost, the product recovers its properties after progressive thawing and homogenizing by agitation. In case of contact with skin or eyes, rinse thoroughly with water. If irritation persists, seek medical attention. If swallowed, do not induce vomiting and seek medical attention.

## QUALITY STATEMENT

All our products are manufactured to comply with our internal QA/QC program and quality management system to ensure consistency and quality.

## DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

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