

# Admix CF Z1

ADMIXTURES & CONCRETE  
RELATED PRODUCTS

## HIGH-RANGE / WATER REDUCING / SUPERPLASTICIZING ADMIXTURE

### PRODUCT

Admix CF Z1 is a superplasticizer based on naphthalene polymer that has a strong dispersing power over the fine particles of concrete, thus allowing the concrete to achieve higher mechanical properties and high early strength.

Admix CF Z1 does not delay the setting of concrete and is capable for higher water reduction. Admix CF Z1 works on a very low W/CM with the presence of supplementary cementitious materials, such as GGBS and silica fume.

### PROPERTIES

- Increase concrete cohesion
- Increase compressive, tensile, and flexural strengths
- Produces high early strengths and can significantly increase mould utilization in precast works
- Can be used to gain economies due to a possible cement reduction

### SCOPE OF USE

Admix CF Z1 is recommended for all cement types in the following areas:

- Heavily reinforced concrete works
- Paving and industrial floor
- Ready mixed concrete
- Concrete with low W/CM
- Precast concrete
- Hollow core precast concrete elements
- Improvement of concrete workability on site
- Reduction in cement content

### CHARACTERISTICS

Appearance	Liquid
Color	Brownish
Specific gravity at 20°C	1.22 ± 0.01
Chloride content	Zero to BS 5075
Air entrainment	Less than 1% additional air is entrained.

### APPLICABLE STANDARDS

Admix CF Z1 complies with:  
ASTM C – 494 – Type G & F.  
BS 5075 Part 1, BS EN 934, Part 2.

### INSTRUCTIONS FOR USE

Admix CF Z1 is totally miscible in water. No extension

to the batching time is necessary. Do not add to dry cement. Admix CF Z1 can be used on site to produce fluid concrete to a required workability. Make sure that the concrete is agitated for not less than 2 minutes at 15-20 rpm before casting.

For high early strength of concrete, use a lower W/CM and a higher Admix CF Z1 dosage.

### DOSAGE

Trials should be conducted to determine the optimum dosage of Admix CF Z1 for a particular mixture. A dosage of 800 to 3500 ml per 100 kg of cementitious materials is recommended. This may be changed to higher dosage in high ambient and concrete temperature conditions.

### EFFECTS OF OVER DOSING

Admix CF Z1 can be used at high dosages without any retardation. A severe over dose of Admix CF Z1 will result in the following:

- Very slight delay of the initial and final setting of the concrete mixture
- Very Slight increase in air entrainment
- Increase in workability

### COMPATIBILITY

Admix CF Z1 can be used in all types of portland and sulfate-resisting cements including concrete made with supplementary cementitious materials. For use with other cements, contact the company technical services department. Admix CF Z1 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 Z1 they must be dispensed separately. Consult the company Technical Dept. for advice.

### SPECIFICATION CLAUSE

Admix CF Z1, a superplasticizing concrete admixture manufactured by our company to the following specification:

Admix CF Z1 can be used in all concrete mixes as mentioned, at dosage between 800 and 2500 ml per 100 kg of cementitious materials in accordance with the manufacture's instructions.

### DISPENSING

It is preferable that liquid admixtures for concrete

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should be introduced into a mixer by means of automatic dispensing equipment. Such equipment can be supplied by our company.

## PACKAGING

Admix CF Z1 is supplied in:

Bulk, barrels

Storage tanks can be provided for bulk use.

## STORAGE

Admix CF Z1 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.

## NOTE

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\*Available only in Lebanon