

Admix CF 112

ADMIXTURES & CONCRETE
RELATED PRODUCTS

HIGH-RANGE / WATER REDUCING / SUPERPLASTICIZING ADMIXTURE FOR PRECAST CONCRETE

PRODUCT

Admix CF 112 is a superplasticizer based on synthetic polymers that has a strong dispersing power over the fine particles of concrete hence allowing higher mechanical properties and high early compressive strength.

Admix CF 112 does not delay the setting time of the concrete and is capable to achieve higher water reduction in concrete. Admix CF 112 works even in concrete with very low water/cementitious materials ratio containing supplementary cementitious materials, such as GGBS, fly ash and silica fume.

Admix CF 112 can be used on site (re-tempering) to boost up the workability of the concrete mixture to any extend fluidity without danger of delay in setting.

PROPERTIES

- Increase concrete cohesion
- Increase compressive, tensile, and flexural strengths
- Produces high early strengths and can significantly increase mould utilization in ready mix/precast works
- Can be used to gain economies due to a possible cement reduction
- High water reducing
- High workability-ease of placing and compaction without segregation
- Good adhesion - ease of pumping. No bleeding
- Good workability - excellent surface appearance
- Minimal bleed water - excellent concrete quality
- High elastic modulus - superior load bearing capacity

SCOPE OF USE

Admix CF 112 is recommended for all cement types in the following areas:

- Heavily reinforced concrete works
- Paving and industrial floor
- Ready mixed concrete
- All concrete requiring a fluid consistency
- Concrete with low W/C
- Precast concrete
- Prestressed concrete
- Shotcrete
- Slipform concrete applications
- Structures with congested reinforcement where vibratory efforts are ineffective
- Concrete with high resistance against aggressive media
- High Performance concrete
- High Durability concrete
- Pervious concrete

- Long hauling concrete deliveries
- Hollow core precast concrete elements
- Improvement of concrete workability on site

CHARACTERISTICS

Appearance	Liquid (Brown)
Specific gravity at 20°C	1.185 ± 0.02
Chloride content	NIL- BS 5075/EN 934-2

APPLICABLE STANDARDS

Admix CF 112 complies with:

ASTM C – 494 – Type A&F.

BS 5075 Part 1

BS EN 934, Part 2. Tables 3.1 & 3.2

ASTM C1017 Type I & II

INSTRUCTION FOR USE

Admix CF 112 is totally miscible in water. No extension to the batching time is necessary. Do not add to dry cement. Admix CF 112 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/C and higher Admix CF 112 dosage.

DOSAGE

Trials should be conducted to determine the optimum dosage of Admix CF 112 for a particular mixture. A dosage of 600 to 2750 ml per 100 kg of cementitious materials is recommended. This may be changed to higher dosage in high ambient and mixture temperature conditions.

EFFECTS OF OVER DOSING

Admix CF 112 can be used at high dosage rates without any retardation. A severe over dosage of Admix CF 112 will result in the following:

- Very slight delay of the initial and final setting times of the concrete mixture.
- Very Slight increase in air entrainment.
- Increase in workability
- Higher Ultimate strength when curing practices are implemented as per ACI 308R
- No more severe side effects are known with the history of Admix CF 112

Admix CF 112

COMPATIBILITY

Admix CF 112 is compatible with all types of Portland cement, class C and F fly ash, silica fume, ground granulated blast furnace slag, fibers and approved air entraining, accelerating, retarding, and high-range water-reducing admixtures.

Admix CF 112 can be used in all types of Portland and sulfate-resisting cements, including those containing supplementary cementitious materials. For use with other cements, contact the company's technical service department.

Admix CF 112 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 112 they must be dispensed separately. Consult the company's technical dept. for advice.

PACKAGING

Admix CF 112 is supplied in:

Bulk, barrels

Storage tanks can be provided for bulk use.

STORAGE

Admix CF 112 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

The information included on this Technical Data Sheet is the sole property of SODAMCO Holding. The unauthorized disclosure, use, dissemination or copying (either whole or partial) of this data sheet or any information it contains, is prohibited and subject to legal pursuit.

Edition: 03/12-A

