Admix CF 100 PMD

High-Range Water Reducing / Superplasticizing Admixture for Ready Mix & Precast Concrete

PRODUCT

Admix CF 100 PMD is a chloride-free, high-range superplasticizer based on synthetic polymers that has a strong dispersing power over the fine particles of concrete, thus allowing the concrete to achieve higher mechanical properties.

Admix CF 100 PMD secures a powerful deflocculating and dispersing action of cement, which facilitates the production of fluid, self-consolidating concrete without segregation.

PROPERTIES

Admix CF 100 PMD provides the following properties:
- Increase concrete cohesion
- Enhances compressive, tensile, and flexural strengths at all ages
- Produces flowable concrete
- Development of High strength, especially at low W/C, can be significantly increased
- Provide High workability
- Ease of placing and compaction without segregation
- Good adhesion - ease of pumping
- Good workability - excellent surface appearance
- Minimal bleed water - excellent concrete quality
- Cement content optimized for desired mechanical strength
- Early strength development
- Concrete placement at cold weather conditions
- Concrete placement at hot weather conditions
- Improvement of concrete workability on site, used for retempering concrete workability on site
- Compatible with concrete mixes containing GGBS, PFA, silica fume and other supplementary cementitious materilas
- Fluid concrete, in particular when there is a requirement to maintain fluidity over time.

SCOPE OF USE

Admix CF 100 PMD is recommended for all types of portland cement, sulfate resisting cement, silica fume, GGBS, Fly Ash and other supplementary cementitious materials 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

CHARACTERISTICS

Appearance	Liquid
Color	Brownish
Specific gravity at 25°C	1.20 ± 0.03
Chloride content	NIL– BS 5075/EN 934-2

APPLICABLE STANDARDS

Admix CF 100 PMD 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 100 PMD is totally miscible in water. No extension to the batching time is necessary. Do not add to dry cement. **Admix CF 100 PMD** 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.

DOSAGE RATES

Trials should be conducted to determine the optimum dosage of **Admix CF 100 PMD** for a particular mixture. A dosage of 400 to 3000 ml per 100 kg of cementitious materials is recommended. This may be changed to higher dosage in high ambient and mixture temperature conditions.

EFFECT OF OVERDOSE

Admix CF 100 PMD can be used at high dosage rates without any retardation. A severe over dosage of **Admix CF 100 PMD** 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 100 PMD**

COMPATIBILITY

Admix CF 100 PMD is compatible with all types of Portland cement, class C and F fly ash, silica fume, ground granulated blast furnace slag, fibers and

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approved air entraining, accelerating, retarding, and high-range water-reducing admixtures.

Admix CF 100 PMD 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 100 PMD 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 100 PMD** they must be dispensed separately. Consult the company's technical dept. for advice.

PACKAGING

Admix CF 100 PMD is supplied in:
• Bulk, barrels
• Storage tanks can be provided for bulk use.

STORAGE

Admix CF 100 PMD 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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