

Admix CP 310

ADMIXTURES & CONCRETE
RELATED PRODUCTS

WATER-REDUCING AND RETARDING ADMIXTURE

PRODUCT

Admix CP 310 is a multi-component admixture which is carefully formulated to enhance the quality and performance characteristics of plastic and hardened concrete. Its unique chemistry results in more complete and efficient hydration of the cementitious materials in the concrete matrix, and provides improved durability, finishability and overall appearance. It does not contain calcium chloride or any other chemicals which could be harmful to the durability of reinforced concrete. Admix CP 310 may be used to reduce the water content whilst retaining the same workability resulting in higher strengths. Admix CP 310 can also improve the cohesion of concrete mixes based on poor quality materials having a higher water demand.

PROPERTIES

Admix CP 310:

- Improves the quality of concrete by decreasing water-cement ratio for a given workability
- Increases ultimate compressive and flexural strengths
- Provides superior concrete finishability
- Improves workability and ease of placement and consolidation
- Improves pumpability of concrete
- Provides uniform control of setting characteristics
- Reduces cracking and shrinkage
- Increases relative freeze-thaw durability
- Allows the retention of the original slump over time in addition to the normal properties of a plasticizer.
- Reduces segregation and bleeding.

SCOPE OF USE

Admix CP 310 is ideal to use in hot-weather conditions where the slump retention over time is important for transportation.

- Transported concrete
- Pipe prefabrication
- General reinforced concrete
- Ready-mix concrete
- Heavy prefabrication
- Pumped concrete

CHARACTERISTICS

Appearance	Liquid
Color	Light Brown
Specific gravity	1.10 ± 0.04
Chloride content	Zero to BS 5075

APPLICABLE STANDARDS

Admix CP 310 complies with:

ASTM C 494 Types A & D.

INSTRUCTIONS FOR USE

Admix CP 310 is totally miscible in water. It is to be added to the concrete mixture during the mixing cycle at the same time as the water. No extension to normal mixing time is required.

DOSAGE

Trials should be conducted to determine the optimum dosage of Admix CP 310 for a particular mix. A dosage of 200 to 1100 ml per 100 kg of cement is recommended. This may be changed to higher dosage in high ambient and mixture temperature conditions. At temperature below 20°C, preliminary tests should be carried out for dosages higher than 0.8%.

EFFECTS OF OVER DOSING

A severe over dose of Admix CP 310 will result in the following:

- Delay of the initial and final setting times
- Increased workability

Providing it is properly cured, the ultimate strength of the concrete will not be adversely affected and will generally be higher than that of the normal concrete.

COMPATIBILITY

Admix CP 310 is compatible with all types of Portland cement, and fly ash, microsilica, ground granulated blast furnace slag, calcium chloride, fibers and accelerating, retarding, and high-range water-reducing admixtures. Admix CP 310 can be used in all white, colored, and architectural concrete. For best results, each admixture must be dispensed separately into the concrete mix.

Admix CP 310

SPECIFICATION CLAUSE

Admix CP 310, a plasticizing and retarding concrete admixture manufactured to the following specification:

Admix CP 310 can be used in all concrete mixtures as mentioned, at dosage between 200 and 1100 ml per 100 kg of cement in accordance with the manufacturer's instructions.

DISPENSING

It is preferable that liquid admixtures for concrete should be introduced into a mixture by means of automatic dispensing equipment.

PACKAGING

Admix CP 310 is supplied in:
Bulk, barrels.

Storage tanks can be provided for bulk use.

STORAGE

Admix CP 310 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: 02/15-A

