

Admix CP 445

ADMIXTURES & CONCRETE
RELATED PRODUCTS

WATER-REDUCING / RETARDING / PLASTICIZING ADMIXTURE

PRODUCT

Admix CP 445 is a water reducing/retarding/admixture which acts on the cement particles in a concrete mixture to make it more workable and helps maintain the workability for a considerable period. It helps to maintain cohesion and prevents segregation even on higher dosage.

PROPERTIES

Admix CP 445:

- Allows the retention of original slump over time in addition to the normal properties of a plasticizer (higher slump and/or water reduction).
- Improves the density of the concrete and reduces capillary absorption.
- Increases the ultimate strength of the concrete.
- Reduces segregation and bleeding in concrete.
- Improves appearance of the concrete.

SCOPE OF USE

Admix CP 445 is ideal to use in hot weather conditions where the slump retention over time is critical for transportation. It is also used to optimize the dosage of cement, especially in:

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

CHARACTERISTICS

Appearance	Liquid
Color	Dark Brown
Specific gravity at 20°C	1.115±0.01
Chloride content	Zero to BS 5075
Air entrainment	Up to 2% depending on the dosage and mix design

APPLICABLE STANDARDS

Admix CP 445 complies with:

ASTM C 494 A & D.

BS 5075 Part – 1, BS EN 934, Part 2.

INSTRUCTIONS FOR USE

Admix CP 445 is totally miscible in water. It is to be added to the concrete during 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 445 for a particular mixture. A dosage of 400 to 1800 ml per 100 kg of cement is recommended. This may be changed to higher dosage in high ambient and mix temperature conditions.

EFFECTS OF OVER DOSING

A severe over dose of Admix CP 445 will result in the following:

- Delay of the initial and final setting times
- Slight increase in air entrainment
- 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 concrete made without Admix CP 445.

COMPATIBILITY

Admix CP 445 can be used in all types of portland and sulfate-resisting cements. For use with other cements contact the company's technical service department. Admix CP 445 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 CP 445, they must be dispensed separately. Consult the Company's Technical Dept. for advice.

SPECIFICATION CLAUSE

Admix CP 445, a plasticizing concrete admixture is manufactured to the following specification: Admix CP 445 can be used in all concrete mixes as mentioned, at dosage between 400 and 1800 ml per 100 kg of cement in accordance with the manufacturer's instructions. Composition: Refined high molecular weight lignosulphonates and other adapted chemicals.

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DISPENSING

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

PACKAGING

Admix CP 445 is supplied in:

Bulk, barrels.

Storage tanks can be provided for bulk use.

STORAGE

Admix CP 445 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 GCC

