



1.02 XPERT PC 1000

Poly Carboxylate Retarding Admixture

PRODUCT DESCRIPTION

XPERT Polycarboxylate retarder & Plasticizer (PC) 1000 is a 3rd generation, synthetically manufactured, set-retarding, Strength increasing admixture for concrete. XPERT PC 1000 provides for a more plastic and flowable concrete, greater uniformity, increased durability, reduced shrinkage, and permeability in your concrete. XPERT PC 1000 facilitates placing and finishing by providing controlled retardation of the concrete's setting time, preventing premature stiffening.

BENEFITS

- Controlled retardation (determined by dosage)
- Increased workability and easier place ability.
- Easier and faster pumping of concrete.
- Improved finishing characteristics for flatwork.
- Reduced shrinkage and cracking.
- Reduced segregation at a given slump.
- Greater impermeability.
- Increased concrete durability and uniformity.
- Improved appearance of architectural concrete.
- Increased strength at all ages.

RECOMMENDATIONS

Since XPERT PC 1000 is calcium chloride free, it is recommended for use in all types of concrete including plain, reinforced, precast and prestressed concretes. XPERT PCR 1000 is especially effective in concretes containing such pozzolanic materials as fly ash, silica fume and slag.

DOSAGE

The recommended dosage range for XPERT PC 1000 is 0.3 to 0.85 liters per 100 kg of cement.

DIRECTIONS FOR USE

XPERT PC 1000 can be dispensed into any of the concrete materials, except cement, preferably into the water. XPERT PC 1000 is compatible with other admixtures; however, each admixture should be added to the mix separately.

TEST RESULTS

- Concrete specimens were prepared and tested by an independent laboratory in accordance with CSA A266.2 TYPE WR, WN, R and RX.
- The three (3) samples being tested all had similar slump, temperature (20°C), air contents, and water/cement ratios.

APPLICABLE STANDARDS

XPERT PC 1000 meets or exceeds the requirements of CSA, CAN3 1266.2, RX, ASTM C 494 Type A, B & D admixture.

CHARACTERISTICS

CATEGORY	PARAMETERS
Density	1.10@20°C (+.005 @ 20oC)
Appearance	Clear Liquid
Chlorides	Nil
Air Percentage	Less than 2% but additional air may be entrained at normal dosage
PH	6.5 ---8.0 +_1.0
Alkali content of admixture	Typically, less than 5.0 g. Na2O equivalent/liter

TECHNICAL SERVICE

A trained XPERT representative is available to assist in the preparation of specifications, and the resolution of concrete problems in the field

HEALTH & SAFETY

- Protect hands with rubber gloves and eyes with goggles.
- Accidental splashes to the skin or eyes must be rinsed immediately with clean water.
- Store in well-labeled containers.
- If required get medical attention.