



BELPLAST 416

(NEW GENERATION SUPERPLASTICIZER)

DESCRIPTION:-

The BELPLAST 416 is a modified Poly-carboxylate ether based polymer used to enhance the plasticity or fluidity of the concrete and it is good for making low stickiness concrete.

BELPLAST 416 is suitable for making concrete elements at all workability's including Rheoplastic or Super Workable concrete having fluid consistence, no segregation, a low water binder ratio and consequently high early & long term strengths.

The mechanism of action is bind with effects of electrostatic repulsion and steric hindrance on cement particles. This double effect causes more dispersibility, higher water reduction, more workability and longer retention of slump in concrete mix from M 20 to M 50 Grades.

TYPICAL PROPERTIES:-

1. Colour : Light brown Viscous Liquid
2. Specific Gravity : 1.078 ± 0.02
3. pH : 7.0 ± 0.5
4. Chloride Content : 0.015 (As per BS: 5075 to IS-456-78 within 0.02% whichever is greater as stated by the manufacturer)
5. Workability : BELPLAST 416 produce collapsed slump concrete.
6. Water reduction : 10-25%
7. Dry Material Content : 16.45 (within 3% of value stated by the Manufacturer)
8. Ash Content : 1.12 (within 1.2% of value stated by the Manufacturer)

SUITABLE To -

- a. High volume Fly Ash Concrete
- b. High volume slag concrete
- c. High Performance Concrete
- d. Ready Mix Concrete
- e. Pumping & Precast Concrete
- f. Highly slump, flowable Concrete

STANDARDS:-

Complies with ASTM C-494 type 'F' & 'G' and IS: 9103: 1999

ECONOMIC ADVANTAGE:-

- Concrete of similar workability can be produced with less water.
- Chloride free: Safe in pre stressed concrete production.
- High early strength gains.

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**DOSAGES:-**

The actual amount required to achieve a particular result will vary with the type of cement, the size, shape and grading of aggregate and the total mix design, the dosages range varies from 0.3%-0.7% by weight of cementitious materials.

INSTRUCTION FOR USE:-

The main requirement is to save the cement and reduce water content. Initial trials should be made with normal concrete mix designs. The addition of the admixture will allow the reduction of water from the mix whilst maintaining workability. After initial trial, minor modification to the overall mix design and dosage of admixture may be made to optimize performance.

COMPATIBILITY:-

BELPLAST 416 is compatible with all type of Portland cement, sulphate resisting cements and micro silica and Fly Ash based cement.

PACKAGING:-

BELPLAST 416 as available in bulk and 225 kg Drums.

DISPENSING:-

The measured quantity of BELPLAST 416 added along with the gauging water in the case of batching plants using available dosing pumps at the site.

STORAGE & SHELF LIFE:-

BELPLAST 416 has a shelf life of one year from date of manufacture in unopened original packing and protected from extremes of heat & cold temperatures. Product should be stored under shade.

SAFETY PRECAUTIONS:-

BELPLAST 416 is a non-hazard product; spillage should be washed down immediately with cold water. In case of contact with eyes, rinse immediately with plenty of water.

TECHNICAL INFORMATION & SERVICES

For additional technical information and on- site demonstration, please contact representative of
BNR ENTERPRISES.