



# READYCRETE 300

PC based high performance superplasticizer



## **DESCRIPTION**

BYZON READYCRETE 300 differentiated from conventional superplasticizers in that it is based on a unique carboxylic ether polymer with long lateral chains. This greatly improves cement dispersion. At the start of the mixing process an electrostatic dispersion occurs but the cement particle's capacity to separate and disperse. It is a strong superplasticizer allowing production of consistent concrete properties around the required dosage.

## **FEATURS & BENEFITS**

- › Increased early and ultimate compressive strengths
- › Increased flexural strength
- › Improved adhesion to reinforcing and pre stressing steel
- › Increased durability
- › Better resistance to carbonation Lower permeability
- › Reduced shrinkage and creep

## **AREA OF APPLICATION**

- › Self-compacting concrete
- › Concrete requiring long workability retention
- › Pumpable concrete
- › High performance concrete
- › Bridges and cantilever structures

## **METHOD OF APPLICATION**

- › The optimum dosage is best determined by site trials with the concrete mix which enables the effects of workability, strength gain or cement reduction to be measured. Site trials with READYCRETE 300 should always be compared with mix containing no admixture. As a guide, a dosage range of 0.6 to 1.0% weight of cement is normally recommended.

## **COMPETIBILITY**

- › It is compatible with other types of admixtures when added separately to the mix. Site trials should be carried out to optimize dosages. It is suitable for use with all types of ordinary Portland cements and cement replacement materials such as PFA, GGBFS and silica fume.

## **DURABILITY**

- › Reduction in W/C ratio enables increase in density and impermeability thus enhancing durability of concrete

## **WORKABILITY**

- › READYCRETE 300 can be used to produce flowing concrete that requires no compaction and produce high workable mix without segregation

## **COMPRESSIVE STRENGTH**

- › Makes possible major reductions in water: cement ratio which allow the production of high strength concrete without excessive cement contents.

## **TECHNICAL INFORMATION**

| <b>PROPERTIES</b> | <b>RESULT</b>         |
|-------------------|-----------------------|
| Colour            | light brown liquid    |
| Sp. Gravity       | 1.1 to 1.15           |
| pH value          | 7 to 9                |
| Chloride Content  | Nil                   |
| Air Entrainment   | Maximum 1%            |
| Composition       | Polycarboxylate Ether |

## **COMPLIANCE STANDERD**

- › IS 9103, BS 5075 Part 3 -1985

## **PRECAUTIONS & LIMITATIONS**

- › Excessive water addition or overdosing may cause bleeding or segregation.
- › Overdosing may cause extension of initial and final setting times.
- › If frozen and / or if precipitation has occurred, READYCRETE 300 may be used after thawing slowly at room temperature and after intensive mixing.

## **SHELF LIFE**

- › 12 months for sealed pack when stored under cover, out of direct sunlight, dampproof condition and protect from extremes of temperature

## **PACK SIZE**

- › 10, 20, 50 & 220 Kg Pack

## **SAFETY PRECAUTIONS**

- › Keep out of reach of children. Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice. Limited to professional use only.

Note: All technical data tasted in this product data sheet are based on laboratory tests. Actual measured data may vary according to trails and quality of material availability