

# K CRETE SPA

## Superplasticiser



### Description :

K CRETE SPA is supplied as brown liquid based on sulphonated Napthalene for formaldehyde condensates. The powerful dispersing action of superplasticiser can be used in many ways to obtain dense, high strength durable concrete (M350, M400 and M450). The high water reduction upto 30% make K CRETE SPA ideal for use in precast concrete where high early strength are of paramount importance. This ready to use chloride free liquid admixture meets ASTM C 494 requirements for Type G admixtures.

**INCREASED WORKABILITY:** K CRETE SPA when incorporated in concrete mixes increases the workability without addition of water; thus leading to easy placement and finishing without the risk of segregation and bleeding. The slump retention characteristics of rheoplastic concrete permit the addition of KCRETE SPA admixture at the batch plant.

**INCREASED STRENGTH:** K CRETE SPA can be used to reduce upto 30% water for a given workability leading to increase in early and ultimate strengths. Such high early strengths and early stripping of form work lead to increased productivity on precast concrete and the production of high strength concrete without increasing cement content.

### Uses :

- All types of premix concrete where high water reduction or flowing properties are required.
- Mass concrete pours
- Long distance transport
- Pumped concrete
- Concrete in hot climates



### Advantages :

- Use in precast concrete work
- Increased high early and ultimate strength, if water reduction is taken advantage of Safe in prestressed concrete improves
- cohesion thus aids pumping of concrete
- Facilitates rapid placing of concrete and with little or no vibration
- Makes the concrete denser, hence durability increased
- High water reductions upto 30%
- High flowability of the concrete for longer periods
- Delayed setting and longer workability
- Cohesive and non-segregating
- High elastic modulus



### Dosage & Packing :

- 300 to 600 ml/50 kg cement. However, the optimum dosage to be determined by site trials.
- 5, 50, 100, 200 litre carbuoys and drums.

### Properties :

- Physical state: Brown liquid, specific gravity:1.16 at 27oC, Chloride content: Nil as per IS 456 and BS 5075
- Air entrainment: Less than 1% additional air entrained.
- Over dosing upto double the normal dosage levels may lead to retardation of settings times and may tend to segregate and
- produce ultra fluid concrete.

### Shelf Life :

12 months storage life when stored in original unopened container at between 5 °C to 45 °C in a dry and shaded place.

### Health & Safety :

KCRETE W is non-hazardous. It should not be swallowed or allowed to come into contact with skin or eyes. Suitable protective goggles and gloves should be worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed, seek medical attention immediately, do not induce vomiting.



### Note :

All information is given in good faith on the results gained from experience and tests. However, all recommendations or suggestions are made without guarantee since we don't have any control on site conditions and its uses.