



## ELMIERE SP 475

**Superior high range water reducer for high strength concrete**

### Uses

- For piling and mass concrete pour with increased cohesion
- For long haul concrete
- Better pump able concrete
- To be used in high strength concrete for workability retention at low water content.

### Advantages

- Better cohesion and particle dispersion minimizes segregation and bleeding
- Improves pump ability
- Chloride free, best for pre-stressed and reinforced concrete
- High range water reducing property allows the production of high strength concrete

### Standard complies

ELMEIRE SP 475 complies with ASTM C 494 Type D & G.

### Description

ELMIERE SP 475 is a chloride free, super plasticizing admixture based on advanced synthetic polymers.

ELMEIRE SP 475 disperses the fine particles in the concrete mix, enabling the water content of the concrete to perform more effectively.

The very high level of water reduction possible allows major increases in strength.

### Properties

Appearance	: brown liquid
Specific gravity	: 1.22 +/-0.02@ 20 <sup>o</sup> c
PH value	: 7 - 8
Chloride content	: nil to BS 5075
Air entrainment	: typically less than 2% additional air is Entrained at normal Dosages

### Compatibility

ELMIERE SP 475 is compatible with all types of Portland cements and cement replacement materials such as PFA, GGBFS and Micro silica.

It is also compatible with other ELMRR admixtures used in the same concrete mix.

### Dispensing

ELMIERE SP 475 is introduced in to the mixer with the mixing water. ELMIERE SP 475 should never be added to dry mix. The admixture works more efficiently if it is added to the dampened mix. Full blending of the admixture and concrete should be ensured by mixing at

high speed for a period of at least two minutes.

#### **Typical dosage**

For normal concrete, a dosage between 0.75% to 1.5% by weight of cement may be used, and for high strength concrete, dosage between 1.5% to 3% by weight of cement may be used.

The optimum dosage of ELMIERE SP 475 should always be determined by trial mixes using the materials and conditions that will be experienced in use.

#### **Storage**

ELMIERE SP 475 must be stored in a place where temperature does not drop below +5<sup>o</sup>c. If product has frozen, thaw at +3<sup>o</sup>c and agitate until completely reconstituted. Store under cover, out of direct sunlight and protect from extremes of temperature.

#### **Health and safety**

ELMIERE SP 475 does not fall in to the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes.

Splashes on the skin should be removed with water. In 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.

#### **Fire**

ELMIERE SP 475 is water based and non-flammable

#### **Product Manufactured By:**

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