



# KUT PLAST RSP

## Superplasticising, Retarding, High Range Water Reducing Admixture

ADM - 11 - 0104

### DESCRIPTION

**KUT PLAST RSP** is a chloride free, super plasticising Admixture based on selected synthetic polymers. It is supplied as a brown solution which is instantly dispersible in water. **KUT PLAST RSP** can provide very high level of water reduction and hence major increase in strength can be obtained coupled with good retention of workability to aid placement.

### USES

- **KUT PLAST RSP** can produce self-levelling concrete without segregation eliminating the need for vibration during placing.
- **KUT PLAST RSP** provides excellent workability retention even at low water / cement ratio.
- **KUT PLAST RSP** is especially recommended for use in concrete cast with cement replacement materials such as **PFA, GGBFS** and Microsilica.

### ADVANTAGES

**Increased Workability** : Reduces placing time, labour and equipment.

**High Strength Concrete** : Water reduction gives higher strengths without cement increase or workability loss.

**Extended Workability** : Some set retardation gives longer working times which are useful for truck transport and for avoiding cold joints between concrete pours.

**Reduce Permeability** : Reduction of water reduces porosity giving improved water impermeability.

**Surface Finish** : Better dispersion of cement particles and increased cohesion minimises segregation and bleeding and gives improved surface finish.

**Improved Pumpability** : Line friction is reduced by increasing workability and cohesion.

**Chloride Free** : Safe in reinforced concrete.

**Economy** : Water reduction gives same desired strength with reduced cement content resulting in savings.

### STANDARDS

**KUT PLAST RSP** complies with **BS 5075 Part-3,1985** and **ASTM C494 Type G**.

### TYPICAL PROPERTIES

- **Calcium Chloride Content** : Nil
- **Specific Gravity** : 1.195 at 20° C
- **Air Entrainment** : Less than 1 % additional air is entrained.
- **Setting Time** : 1 - 4 hours retardation depending on dosage and climatic conditions.
- **Chloride Content** : Nil to **BS 5075-1982**.
- **Cement Compatibility** : Compatible with sulphate resisting and other Portland cements, high alumina cements and cement replacement materials such as **PFA, GGBFS** and **Microsilica**.
- **Durability** : Water reduction gives increase in density and water impermeability which improves durability.



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## INSTRUCTIONS FOR USE

**Dosage** :The optimum dosage for **KUT PLAST RSP** should be determined by site trials with actual site conditions.

**As a guide the dosage is normally:**

0.60 - 1.00 litres / 100 kg cementitious material, for flowing concrete.

1.00 - 2.50 litres/100 kg cementitious material, for high strength concrete.

Dosage can be from 0.40 litres to 3 litres / 100 kg, cementitious material, dependant on the requirements of the concrete involved.

**Overdosing** : An overdose of double the intended amount of **KUT PLAST RSP** will result in very high workability and increased retardation as compared to that normally obtained, Provided that adequate curing is maintained, the ultimate compressive strength will not be impaired. The effects of overdosing will be further increased if sulphate resisting cement or cement replacement materials such as **PFA, GGBFS** are used.

**Curing** : As with all structural concrete, normal curing methods apply.

## TECHNICAL SUPPORT

'**ASPEC**' provides technical support service on mix design, admixture selection, evaluation of trials, dispensing equipment etc. Please contact the Technical Department in these cases.

## PACKAGING

**KUT PLAST RSP** is supplied in 210 litre drums.

**Cleaning** : Spillages of **KUT PLAST RSP** can be removed with water.

**Storage** : **KUT PLAST RSP** should be protected from extremes of temperature. Should the material become frozen, it must be completely thawed and thoroughly mixed before use. **KUT PLAST RSP** has a minimum shelf life of 12 months provided temperature is kept within the range 5° C to 30° C.

## PRECAUTIONS

### HEALTH AND SAFETY

**KUT PLAST RSP** is non-toxic. Any splashes to the skin should be washed immediately with water. Splashed to the eyes should be washed immediately with water and medical advice should be sought.

**Fire** : **KUT PLAST RSP** is non flammable.

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