

# KUT PLAST 230

## Water Reducing & Retarding Admixture

ADM-36-1110



### DESCRIPTION

**KUT PLAST 230** is based on a lignosulphonate. Supplied as a brown liquid it is instantly dispersible in water. **KUT PLAST 230** produces more cohesive workable concrete at constant water/cement ratio with slightly improved strength or can give higher strengths at the same workability or can give cement savings upto 15% at the same water/cement ratio, workability and strength.

**KUT PLAST 230** will give extended workability.

### USES

**KUT PLAST 230** can provide upto 20% reduction in free water without loss of workability, resulting in reduced permeability and early strength gain. Can also be used to give cement savings.

**KUT PLAST 230** gives extended workability which is useful when concrete is transported in ready mixed trucks and for avoiding cold joints.

**KUT PLAST 230** is best suitable for mixes containing fly ash and other pozzotonic materials and wet mixes.

### ADVANTAGES

**Increased workability:** Reduces placing time.

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

**Improved strength:** Water reduction gives higher strengths without cement increase or workability loss.

**Reduced 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 for flat work and cast surfaces.

**Chloride free:** Safe In reinforced concrete.

### STANDARDS

**KUT PLAST 230** complies with BS 5075 as a water reducing and retarding admixture and **ASTM C-494 - Type D & G**.

### TYPICAL PROPERTIES

- **Calcium Chloride content:** NIL
- **Specific gravity:** 1.16 – 1.18 @ 20°C.
- **Air entrainment:** Less than 1 % additional air is entrained.
- **Setting time:** 1 to 4 hours retardation at recommended dosage.
- **Cement compatibility:** Compatible with sulphate resisting and other Portland cements.
- **Durability:** Water reduction gives increase in density and water impermeability, which improves durability.
- **Compressive strength:** Reduction in water/cement ratio will result in upto 25% increase in early age compressive strength.

### INSTRUCTIONS FOR USE

**Dosage:** The optimum dosage for **KUT PLAST 230** should be determined by site trials with the particular concrete mix under prevailing ambient condition.

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

0.80-1.60 litres/100 kg cement, an optimum dose of upto 2.00 litre/100 kg cement can be used depending on special circumstances (Hot weather concreting).

**Use at other dosages:** Dosage outside the normal range can be used to meet particular requirement. Contact **ASPEC** for advice in these cases.



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**Overdosing:** An over dose of double the intended amount of **KUT PLAST 230** will result in retardation.

The ultimate compressive strength of the concrete will not be significantly impaired, but particular care should be taken to cure the concrete thoroughly.

**Curing:** As with all structural concrete, normal 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.

**Cleaning:** Spillages of **KUT PLAST 230** can be removed with water.

**Packaging:** **KUT PLAST 230** is supplied in 210 litres drums and in bulk.

**Storage:** **KUT PLAST 230** should be protected from extremes of temperature. Should the material become frozen, it must be completely thawed and thoroughly mixed before use.

**KUT PLAST 230** has a curing minimum shelf life of 12 months provided.

## PRECAUTIONS

### HEALTH AND SAFETY

**KUT PLAST 230** is non-toxic. Any splashes to the skin should be washed immediately with water. Splashes to the eyes should be washed immediately with water and medical advice should be sought.

**Fire:** **KUT PLAST 230** is non-flammable.

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