

KUT PLAST 210

Lignosulphonate Based Plasticiser

ADM-01-1110



DESCRIPTION

KUT PLAST 210 is based on a Lignosulphonate. Supplied as a brown liquid it is instantly dispersible in water. **KUT PLAST 210** produces cohesive more workable concrete at constant water/cement ratio with slightly improved strength or can give higher strength at the same workability or can give cement saving upto 10% at the same water/cement ratio, workability and strength.

USES

KUT PLAST 210 can provide up to 15% reduction in free water without loss of workability, resulting in reduced permeability and early strength gain. Can also be used to give cement savings.

ADVANTAGES

Increased workability: Reduces placing time.

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 minimizes segregation and bleeding and gives Improved surface finish for flat work and cast surfaces.

Chloride free: Safe in reinforced concrete.

STANDARDS

KUT PLAST 210 complies with **BS 5075**, 1982 as normal water reducing admixture and **ASTM C-494 Type A**.

TYPICAL PROPERTIES

- **Calcium Chloride content:** Nil.
- **Specific gravity:** 1.17 to 1.19 at 20°C.

- **Air entrainment:** Less than 1% additional air is entrained.
- **Setting time:** Less than 1 hour retardation at normal 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 up to 50% increase in early age compressive strength.

INSTRUCTIONS FOR USE

Dosage: The optimum dosage for **KUT PLAST 210** should be determined by site trials with the particular concrete mix under prevailing ambient condition.

As a guide the dosage is normally: 0.6 to 1.2 litres/100 kg cementitious material. For hot weather concreting where **KUT PLAST 210** is to be used for extended workability a dose of 1.4 litre/100 kg cement can be used.

Overdosing: An over dose of double the intended amount of **KUT PLAST 210** will result in increased air entrainment. The ultimate compressive strength of the concrete will not be significantly impaired.

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.

Cleaning: Spillages of **KUT PLAST 210** can be removed



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with water.

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

Storage: KUT PLAST 210 should be protected from extremes of temperature. Should the material become frozen, it must be completely thawed and thoroughly mixed before use. KUT PLAST 210 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 210 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 210 is non-flammable



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