



KUT PLAST 226

High Range Water Reducing And Retarding Admixture

ADM - 12 - 0104

DESCRIPTION

KUT PLAST 226 is chloride free, water reducing and retarding admixture based on selected synthetic polymers and modified lignosulphonates and is supplied as a brown solution which is instantly dispersible in water. **KUT PLAST 226** produces cohesive more workable concrete at constant water/cement ratio with slightly improved strength or can give higher strength at the same workability and proportionate water reduction. Use of **KUT PLAST 226** results in improved workability retention.

USES

- **KUT PLAST 226** can provide upto 20% reduction in free water without loss of workability.
- **KUT PLAST 226** gives extended workability which is useful when concrete is transported in ready mixed trucks and for avoiding cold joints.
- Depending on dosage **KUT PLAST 226** can be used in normal as well as high strength concrete.

ADVANTAGES

Increased Workability : Reduces placing time, labour and equipment.

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

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.

Chloride Free : Safe in reinforced concrete.

STANDARDS

KUT PLAST 226 complies with **BS 5075-1982**, **ASTM C494 Type B, D & G** depending upon dosage.

TYPICAL PROPERTIES

- **Appearance** : Brown Liquid
- **Calcium Chloride Content** : Nil
- **Specific Gravity** : 1.20 at 20° C (Typical)
- **Air Entrainment** : Less than 1% additional air is entrained.
- **Setting Time** : 1-5 hours retardation at recommended dosages.
- **Chloride Content** : Nil to **BS 5075-1982**

INSTRUCTIONS FOR USE

Compatibility : **KUT PLAST 226** is compatible with other **KUT** admixtures used in the same concrete mix. All admixtures should be added to the concrete separately and must not be mixed together prior to addition. The performance of concrete containing more than one admixture should be assessed by trial mixes. **KUT PLAST 226** is compatible with sulphate resisting and all types of portland cements and cement replacement materials such as PFA, GGBFS & Microsilica.

Dosage : The optimum dosage for **KUT PLAST 226** should be determined by site trials with actual site conditions.

As a guide the dosage is normally:

0.30 - 0.90 litres / 100 kg cementitious material, for flowing concrete.

0.9 - 1.3 litres / 100 kg for high strength concrete.

Overdosing : An overdose of double the intended amount or upto 2 litres / 100 kg cementitious materials whichever is lower, **KUT PLAST 226** will result in significant increase in workability and retardation as compared to that normally obtained. provided that adequate curing is maintained, the ultimate strength of the concrete will not be impaired.

Curing : As with all structural concrete, normal curing methods apply. Refer catalogues of **KUT** Curing Compounds.

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.



Specialities Construction
Chemicals Factory



Amghara Industrial Area, P.O.Box: 23595 Safat, 13096 Kuwait, Tel: +965 4565165 - 4565145 Fax: +965 4565135
Email: technical@aspeckuwait.com

PACKAGING

KUT PLAST 226 is supplied in 210 litre drums and bulk supply by arrangement.

Cleaning : Spillages of **KUT PLAST 226** Can be removed with water.

Storage : **KUT PLAST 226** should be protected from extremes of temperature. Should the material become frozen, it must be completely thawed and thoroughly mixed before use. **KUT PLAST 226** has a minimum shelf life of 12 months provided temperature is kept within the range 5° C to 30° C.

PRECAUTIONS

HEALTH & SAFETY

KUT PLAST 226 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 226** is non flammable.

ASPEC endeavours to ensure that any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

Distributor: