

KUT PLAST NA/EDS

Superplasticising, Water Reducing, Strength Accelerating Admixture

ADM-04-1110



DESCRIPTION

KUT PLAST NA/EDS is synthetic plasticiser based on sulphonated naphthalene. It is a brown liquid instantly dispersible in water.

KUT PLAST NA/EDS will give flowing concrete or high strength concrete with high early strength development and impermeability depending on dosage and water reduction percentage.

USES

KUT PLAST NA/EDS can produce self-levelling concrete practically eliminating the need for vibration during placing.

KUT PLAST NA/EDS can provide 25% reduction in water, reduced permeability and high early strength.

ADVANTAGES

Increased workability: Reduces placing time, labour and equipment.

High strength concrete: Water reduction gives higher strengths without cement increase or workability loss.

High early strength: Water reduction can double the early age strength development.

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.

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

Chloride free: Safe in reinforced concrete.

STANDARDS

KUT PLAST NA/EDS complies with **BS 5075** and **ASTM C-494 Type F**.

PROPERTIES

Calcium chloride content: Nil.

Specific gravity: 1.18 to 1.20 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 and high alumina 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 75% increase in early age compressive strength.

INSTRUCTION FOR USE

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

As a guide, the dosage is normally:

0.8-1.4 litres/100 kg cement, for flowing concrete. 1.4-2.0 litre/100 kg cement for high strength concrete. Dosage can be from 0.6 litres/100 kg up to 3 litres/100 kg, depending on the requirements of the concrete involved.

Overdosing: An over dose of up to 4 litres/100 kg cement of **KUT PLAST NA/EDS** will result in very high workability,



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some retardation and possible segregation. However, the ultimate compressive strength of the concrete will not be impaired if cured properly.

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.

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

Cleaning: Spillages of **KUT PLAST NA/EDS** can be removed with water.

PACKAGING

KUT PLAST NA/EDS is supplied in 20 and 210 litres drums.

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

PRECAUTIONS

HEALTH AND SAFETY

KUT PLAST NA/EDS 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 NA/EDS** is non-flammable.

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