

KUT PLAST SP 200

Superplasticising, Water Reducing, Strength Accelerating Admixture

ADM-15-1110



DESCRIPTION

KUT PLAST SP 200 is a super plasticising concrete admixture based on synthetic polymer, specially designed for precast use. It has the advantage of producing very high early strengths and thus makes the material suitable for use in precast concrete applications and in areas where higher workability concrete and fast shutter stripping are required.

ADVANTAGES

KUT PLAST SP 200 provides the following benefits:

- Substantial improvements in workability without increased water or the risk of segregation.
- Normal set without retardation, even if accidentally overdosed.
- Improved concrete density and surface finish.
- Upto 30% water reduction, 40% increase in 28 days strengths can be obtained.
- Increases frost and water resistant properties of the concrete because of reduced water contents and low permeability.
- Can replace steam curing.
- Faster mould turn around.
- High durability concrete.
- Ultra high strength concrete.
- Can be used with white and coloured concrete without spotting or any effect on colour due to very low colour.

STANDARDS

KUT PLAST SP 200 complies with **BS 5075**, and **ASTM C494 Type F**.

TYPICAL PROPERTIES

- **Form:** Liquid.

- **Colour:** Colourless to straw yellow.
- **Specific Gravity:** 1.05 to 1.15 @ 20°C
- **Chloride Content:** Zero (i.e. less than 0.2% w/w). BS 5075. 1982
- **Effect on Setting:** Little effect even on overdosing.
- **Freezing Point:** -5°C.
- **Storage:** Under shade.
- **Suitability:** All Portland cements including SRC.
- **Sulphate Content:** Less than 0.3%

INSTRUCTIONS FOR USE

In order to obtain the best results, **KUT PLAST SP 200** must be used with specifically designed mixes for the particular requirements of strengths, cost saving or flowing concrete. For maximum dispersion, **KUT PLAST SP 200** should be added with the mixing water.

Dosage: The optimum dosage for **KUT PLAST SP 200** should be determined by site trials with the particular concrete mix under prevailing ambient conditions.

As a guide the dosages are:

0.60-1.40 litre/100 kg cement for flowing concrete,

1.40-2.00 litre/100 kg cement for high strength concrete.

But dosage can be as low as 0.3 litres/100 kg depending on the needs and requirements of concrete involved.

Overdosing: An overdose of double the amount **KUT PLAST SP 200** will result in a very high workability and some retardation. The 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.



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

PACKAGING

KUT PLAST SP 200 is supplied in 210 litre drums.

Cleaning: Spillages of KUT PLAST SP 200 can be removed with water.

Storage: **KUT PLAST SP 200** should be protected from extremes of temperature. Should the material become frozen, it must be completely thawed and thoroughly mixed before use. **KUT PLAST SP 200** has the minimum shelf life of 12 months provided temperatures are in the range 5° C to 30° C.

PRECAUTIONS

HEALTH AND SAFETY

KUT PLAST SP 200 is non-toxic. Any splashes to the eyes should be washed immediately with water and medical advice should be sought.

Fire: **KUT PLAST SP 200** is non flammable.

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