

KUT PLAST PCE 322

High Performance Concrete Superplasticiser Based on Polycarboxylate Technology

ADM-47-0912



DESCRIPTION

KUT PLAST PCE 322 is a super plasticising concrete admixture based on modified polycarboxylate technology. It can be used to either produce flowing concrete or enable large water reductions to be made for the same workability. In addition, 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 PCE 322 provides the following benefits:

As a super plasticiser :

- 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.

As a water reducer :

- Up to 30% water reduction 40% increase in 28 days strengths are possible.
- High strengths after 8 hours and double 16 hours strengths can be obtained.
- Increases frost and water resistant properties of the concrete because of reduced water contents and low permeability.
- Extremely high workability, little or no vibration required.
- Can replace steam curing.
- Faster mould turn ground.
- High durability concrete.
- Ultra-high strength concrete.
- Idle for power trowelled floors.

STANDARDS

KUT PLAST PCE 322 complies with **BS-5075** and **ASTM - C494, Type F**.

TECHNICAL DATA

Form: Liquid

Colour: Colourless to straw yellow

Specific gravity: 1.04 to 1.06 @ 20°C

Chloride content: Nil to BS 5075

Effect, on Setting: Little effect even after overdosing

Freezing Point: -5°C

Storage: Protect from frost

Suitability: All Portland cements including SRC

Sulphate Content: Less than 0.3

INSTRUCTIONS FOR USE

In order to obtain the best results, **KUT PLAST PCE 322** must be used with specifically designed mixes for the particular requirements of strength, cost saving or flowing concrete. For maximum dispersion, **KUT PLAST PCE 322** should be added with the mixing water. On no account should it be added to the dry cement. Where concrete is being delivered by ready mixed trucks, then **KUT PLAST PCE 322** should be added at site, the mixer drums should then be rotated at maximum revolution until a uniform mix is achieved.

Dosage: The optimum dosage for **KUT PLAST PCE 322** should be determined by site trials with the particular concrete mix under prevailing ambient conditions.



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0.40–1.00 litres/100 kg cement, for flowing concrete.

1.20-2.0 litre/100 kg cement for high strength concrete

But dosage can be as low as 0.4 litres/100 kg to as high as 2.5 litres/100 kg depending on the needs and requirements of concrete involved.

Overdosing: An over dose of double the intended amount of **KUT PLAST PCE 322** will result in very high workability and some retardation. The ultimate compressive strength of the concrete will not be impaired if cured properly.

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

PACKAGING

KUT PLAST PCE 322 is supplied in 20 and 210 litre drums.

Cleaning: Spillages of **KUT PLAST PCE 322** can be removed with water.

Storage: **KUT PLAST PCE 322** should be protected from extremes of temperature. Should the material become frozen, it must be completely thawed and thoroughly mixed before use. **KUT PLAST PCE 322** has a minimum shelf life of 12 months provided temperature is 5°C to 30°C.

PRECAUTIONS

HEALTH AND SAFETY

KUT PLAST PCE 322 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 PCE 322** is non-flammable.

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