

LUBECRETE



DESCRIPTION

LUBECRETE is a new powder type of high range water reducing concrete admixture that is more powerful than standard reducing aids. The superplasticizer property of **LUBECRETE** substantially reduces the water content and imparts workability to the concrete mix respectively.

FEATURES

- Lowers the water/cement ratio.
- Makes mix placement easier and quicker.
- Increased early and final compressive strengths from water reduction.
- Enables lowering of cement content while maintaining strength.
- Allows much quicker mould turnover time for precasters.
- Less energy is required for curing.
- Improves the finish of cast concrete by minimizing honeycombed surface.

PROPERTIES

LUBECRETE is a dispersing agent that promotes the separation or deflocculation of the cement particles by overcoming the electrostatic forces that attract them. This effect is evident on other types of cementitious materials such as fly ash and ground blast furnace slag.

The strong dispersing action of **LUBECRETE** upon the cement causes the concrete to flow much easier than a conventional mix. This effect is called plasticising.

As a superplasticizer, **LUBECRETE** gives the concrete mix optimum plasticity and allows it to be placed easier and accurately at the working site. In addition, the use of **LUBECRETE** allows a lowering of the water cement ration without loss of slump.

This results directly in an increase of early and ultimate compressive strength of the concrete.

LUBECRETE is non-foaming and non-toxic. Because it's synthetic, it always exhibits uniform properties. Its temperature stability is over 150°C. When used at normal suitable dosage levels, **LUBECRETE** will not significantly affect the concrete's heat of hydration. Nor does it contribute to reinforcement corrosion or mould growth.

LUBECRETE addition depends on the type of concrete mix, which varies in mix ratio and type of cement, sand, stone or granite aggregate. These additions are offered as a guide to water reduction, strength increase and cement reduction.

LUBECRETE per 100 kg cement	Water reduction	Cement reduction	28-day strength increase (guide only)
400gms	18-20%	-	20-29%
800gms	24-26%	13-15%	27-29%

DIRECTIONS FOR PRECAST CONCRETE

The amount of **LUBECRETE** is based on the cement content of the concrete mix. In most cases a 22-25% water reduction can be obtained using 0.5%**m/m LUBECRETE** based on the cement content.

For 50kg cement: quantity of **LUBECRETE** required at 0.5% addition is 250 grams. This value is a starting guide. After a few mixes of trial addition, a constant addition per cement content in a mix is established. To obtain maximum advantages of **LUBECRETE**, the concrete mix should be redesigned and tested by normal trial batch procedures.

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IDENTIFICATION
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LUBECRETE



LUBECRETE is best added with the first water charge, followed by the cement and aggregate then the water content adjusted to produce the consistency of the concrete mix required for its use.

The concrete mix will flow more than a mix without it. This means casting times will be shortened. Finish the setting concrete as normal.

STORAGE

LUBECRETE should be stored under cover and in a cool place with the lid firmly in place. **LUBECRETE** absorbs moisture and will cake.

CLEAN UP

Wash down with water.

SAFETY

Wear protective gloves and goggles.

PACK SIZES

LUBECRETE is sold by the kg, or in 10kg packs.

TRANSPORT

LUBECRETE is not classified as hazardous according to the criteria of Safe Work Australia.

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