

CHEMPLAST 31R

RETARDER PLASTICIZER ADMIXTURE FOR CONCRETE

DESCRIPTION:

CHEMPLAST 31R is a modified lignin-based admixture for effecting controlled retardation in setting of concrete as well as a water reducing agent for enhanced strength at all ages.

ADVANTAGES:

Slow down the setting of concrete in high ambient temperature
Large pours - to prevent 'cold joints'
Delays between mixing and final compaction
Long delivery hauls.
Ready mix concrete
Mass Concrete

FUNCTION:

CHEMPLAST 31R increases the setting time of concrete and mortar as well as increases its ultimate compressive strength by reducing water content in the mix, to a certain extent.

METHOD OF USE:

CHEMPLAST 31R can be directly added into the mix at the same time as the gauging water. Reduce water dosages for required consistency.

USES:

CHEMPLAST 31R is specifically formulated concrete admixture, which extends the time during which concrete remains workable. The initial and the final setting time of the cement and consequently, the slump retention of the concrete are extended in the accordance with the amount of CHEMPLAST 31R added to the mix.

CHEMPLAST 31R significantly reduces amount of water added in the concrete mix, thus increasing the compressive strength of the concrete.

COMPATABILITY:

CHEMPLAST 31R may be used with most Portland cements including blended cements and sulphate resisting cement. CHEMPLAST 31R has no harmful effect on reinforcing steel, pre-stressing tendons etc.

CHEMPLAST 31R is very effective in concrete containing pozzolanic material such as fly ash, silica fumes and slag. CHEMPLAST 31R can be dispensed into any of concrete material except cement but preferably into the water. It is compatible with other admixtures; however, each admixture should be added to the mix separately.

SPECIFICATION COMPLIANCE:

Conforms to ASTM C 494 - 98 Type B

RECOMMENDED DOSAGE:

The degree of retardation depends on the amount of CHEMPLAST 31R added to the mix. Usually a dosage of 200-600ml per 50 kg cement will be suitable, but in higher temperature or where long retardation is required, it may have to be increased depending on the desired parameters of fresh concrete. Larger doses might result in proportionately increased setting time and workability.

SHELF LIFE:

Practically unlimited in sealed original containers. However, it is advisable to use within 12 months from the date of manufacturing.

TECHNICAL INFORMATION:

Form	:	Liquid
Color	:	Dark Brown
PH	:	6 approx.
Specific Gravity	:	1.06 + 0.01
Chloride Content	:	Nil to BS5075:1982
Nitrate Content	:	Nil

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EFFECTS OF OVER DOSAGE:

A severe over dosage of CHEMPLAST 31R will result in the following:

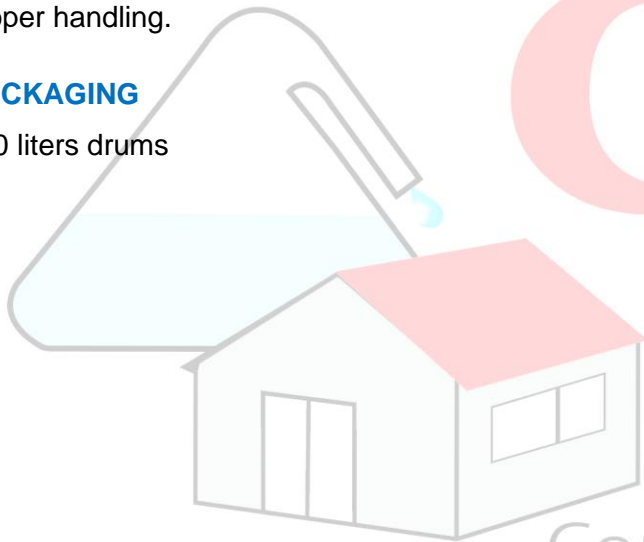
Retardation of initial and final set Slight increase,
air entrapment Increase in workability. If properly
cured, the ultimate strength of the concrete will not
be adversely affected and will generally be higher
than the normal concrete.

SAFETY PRECAUTION:

CHEMPLAST 31R is not a fire/ health hazard.
Spillages should be washed out immediately with
fresh water. Wear goggles and rubber gloves for
proper handling.

PACKAGING

210 liters drums



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Construction Solutions

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