



CONSOL N10 LC

High Range Water Reducer (Superplasticizer)

DESCRIPTION

CONSOL N10 LC is a chloride free, high range water reducing admixture. It is based on selected naphthalene sulphonated, which acts optimally on the various constituents of Portland cement. It is also effective on blended cements based on Portland cement and other materials such as pozzolans, fly-ash, and slags. The use of **CONSOL N10 LC** helps in the production of plastic concrete. **CONSOL N10 LC** meets the requirements of ASTM C494/C494M-19 for type F admixtures.

RECOMMENDED FOR

CONSOL N10 LC is especially suitable for concrete used in the construction of precast elements which requires, excellent workability and high early and final strength, such as:

- production of load bearing precast elements (e.g. bridge girders, piles concrete).
- structures constructed using travelling forms and slip forms.
- insitu casting of structural elements.

BENEFITS

- **Very High Workability**

Short placement time. Saves time and labour.

- **High Water Reduction**

High impermeability and strengths. Improved durability.

- **Superior Cohesion**

No segregation even at high workability. Excellent concrete quality.

- **High Early Strength**

Early demoulding. Shorter steam curing cycles.

- **High Elastic Modulus**

Superior load bearing capacity.

- **Low Shrinkage and Creep**

Better dimensional stability.

PRODUCT DATA

Form

Liquid

Appearance

Dark Brown

Packaging

200 litres sealed drum.

1000 litre IBC's or tanker delivery on request.

Storage

Must be stored at temperatures above 0°C, in tightly sealed original drums. If found to be frozen, thaw it and reconstitute by stirring.

Shelf Life

1 years if stored in unopened original container

TECHNICAL DATA

Chemical Base

Naphthalene sulphonated

Density

Specific density: 1.17 ± 0.02 kg/L (at 25 °C)

INSTRUCTION FOR USE

Dosage

Dosage depends upon the mix design, the ambient conditions and the degree of water reduction and workability required. Typical dosage used is 0.5% - 2.0% by weight of cement. Site trials are recommended to fix the dosage.



Application

The addition of **CONSOL N10 LC** to a dry mix is not recommended. Mix concrete using approximately 75%-80% of the total mixing water to yield a stiff, damp and homogenous mix.

Add **CONSOL N10 LC** to the concrete at the specified dosage through a dispenser. Mix for at least 3 minutes. While continuing to mix, add the remaining water until the specified workability is obtained. The use of fly-ash or silica fume can be beneficial in the production of a very cohesive concrete. Fly-ash or silica fume can be added along with cement.

PRECAUTIONS

- Avoid contact with skin and eyes.
- Wear protective glove and eye protection during work.
- If skin contact occurs, wash skin thoroughly.
- If in eyes, hold eyes open, flood with warm water and seek medical attention without delay.

For detail health, safety and environmental recommendations, please consult and follow all instruction on the Material Safety Data Sheet.

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CONCRETE SOLUTION