



Cellular Lite Concrete Company

FC-LITE Protein based foaming agent

DESCRIPTION

FC - LITE Protein based foaming agent is designed for making the light weight concrete blocks and foamed concrete. It helps to make light weight concrete of very high quality.

It is a specially formulated product based on high performing surfactants, protein and solvents to give high quality concrete casts. It is developed for operation with special equipment called foam generator.

Special stabilizers are added in FC - LITE Protein based foaming agent to ensure that dispersion remains stable for the entire period of setting of concrete; volume and structure of pores remain the same. Volume of concrete is stable till pumping, compression or laying change foam concrete.

SALIENT FEATURES

- 100 % Biodegradable
- Can be used to make 300 kg/m³ to 1400 kg/m³ density Concrete
- Foam remains stable during pumping, till final laying of concrete
- Improved durability during freezing and thawing cycles

DIRECTIONS OF USE

Dosage of **FC - LITE Protein based foaming agent** depends on the density of concrete required. Normally 3 to 4 kg is mixed in 100 litres of water depending upon concrete density being casted, water hardness and the foam generator being used. It also depends on raw materials quality, i.e Fly ash, Cement, Sand (without sharp edges), additives and quality of water being used besides the foam generator.

Hard water may require extra quantity to generate good, stable dispersion. Application pressure is generally between 2-4 kg/cm². Small trial may be necessary to decide necessary dose of FC-LITE Foaming Agent.

PHYSICAL & CHEMICAL PROPERTIES

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|----------------------|------------------------------|
| • Appearance | : Dark brown coloured liquid |
| • pH @ 27°C | : 6.5 – 8.5 |
| • Sp. Gravity @ 27°C | : 1.00 to 1.20 |
| • Freezing Point | : 0 °C |
| • Viscosity @ 27°C | : Less than 30 cSt |
| • Sediment | : Maximum 0.5% |

COMPATIBILITY

Compatible with all types of cement, Fly Ash and other additives.

STORAGE

FC - LITE Protein based foaming agent can be stored below 49°C. The product can withstand intermittent, short time exposure up to 60°C temp. Do not use frozen product as such. It can be used after thawing and mixing well. It is unaffected by freeze/thaw cycles ensure containers are not directly exposed to sunlight & heat for a long period.

SHELF-LIFE & EXPIRY

It has a shelf life of 6 months, considering tropical condition and if properly stored in its original container or tanks suitable for storage. Expiry is 6 months from the date of mfr. as mentioned in the test report of the material.

PACKING

HDPE container of 20 kgs./50Kgs./220 kgs. or pack size of clients choice for bulk orders.

ENVIRONMENTAL & DISPOSAL

It is safe for use and has no harmful effect on human being. It can be successfully treated in biological waste water treatment systems after proper dilution.

DISCLAIMER

The above data is given in good faith and for general guidelines only. We can match the product to client's specifications and/or any applicable standards. All rights reserved.