

MASTERPLAST LWC

FOAMING AGENT FOR LIGHT WEIGHT CONCRETE

DESCRIPTION

MASTERPLAST LWC is brownish concentrated liquid instantly miscible with water. Masterplast LWC is used to produce light weight concrete mixes with light weight concretes where high air content required.

FEATURES / ADVANTAGES

- Easy to use even in cold weather.
- May be used with all types of Portland cement.
- Excellent stability over a wide range of temperature and quality of water.
- Suitable for production of light weight concrete & mortar at Ready mix concrete plants using standard dosing equipment's.

TYPICAL APPLICATIONS

- Flat roof insulation screeds including the provision of drainage "falls".
- Insulated floor screeds (under rigid floor finishes).
- Fabrication of lightweight beams, blocks and panels.
- Fire barrier especially in service voids, fire, walls and doors.
- It is used for lightweight concrete of every kind.

TYPICAL CHARACTERISTICS

Appearance	: Brown liquid.
Specific Gravity	: 1.040 gm. /cc at 25° C
Water Solubility	: Infinite
pH of 1% Solution	: Min 6
Freezing Point	: 3° C to 5° C. Recovers after freezing.
Chloride Content	: Nil according to IS 6925.

DOSAGE AND DIRECTION FOR USE

The dosage may vary in between 0.5 to 2.0 % by weight of binder & requirement of air entrainment. The exact dosage rates are dependent on quality of binder, aggregates, water binder ratio & ambient temperature. To get the required fresh concrete density, concrete trials are recommended. MasterPlast LWC is compatible with all Choksey Superplasticiser trials are recommended before combining the product

PRE-FOAMING METHOD:

Mix thoroughly before use, Prepare 1% solution of **MasterPlast LWC** foaming agent in water (1 liter per 100 Liters of water). The concentrate must be fully dispersed in the water. Pass this

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pre-foaming solution through the foam generating machine which produces uniform and stable foam having a volume of 40 to 45 times that of the original solution. (Alternatively, the water and foaming agent can be fed separately into the foam generator which mixes them in the correct ratio). Feed this foam into the cement or sand/cement slurry within a suitable concrete mixer.

FORCED MIXING METHOD:

This is the simplest method of air entertainment. All the materials, including the foaming agent are loaded into the mixer. For best results, load half the sand into the mixing water and foaming agent and mix for one minute and then add the cement and the rest of the sand. High Speed, vigorous mixing is essential so a forced action mixer should be used rather than the simple tumble action type.

IMPORTANT:

Since the performance of concrete admixture is dependent on local conditions and on the quality of the other materials in the mix, it is strongly recommended that the site trials are conducted.

CLEANING & DISPOSAL

Tools and equipment's can be cleaned with water.

The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.

STORAGE AND SHELF LIFE

- Store the material in a cool and dry place (preferably at 30°C). Protect from direct sunlight and frost.
- Shelf life is one year when stored in original sealed packaging.

PACKING

5 liters, 20 liters and 200 liters packing as per customer requirements

HEALTH AND SAFETY

MasterPlast LWC is non-flammable, however should not be swallowed or allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles.

Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately – do not induce vomiting.

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DISCLAIMER

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential non performance.