



MAS FOAMCEM

General Description:

MAS FOAMCEM is an efficient low dosage foaming admixture, which is used to produce lightweight foam concrete for a variety of insulation and construction applications. It contains tensoactive material and natural protein from animal.

Major Uses:

MAS FOAMCEM helps to produce a stable aerated mortar, by entrapping air into prepared cement slurry in the shape of discontinued air bubbles, to form a cellular structure throughout the mass. The cellular structure significantly reduces the thermal conductivity and density of concrete, resulting in a lower dead load imposed on the structure. It provides excellent resistance to freeze and thaw.

Uses:

MAS FOAMCEM can be used for the production of low density foamed mortar and concrete.

- As flat roof insulation screeds.
- Insulated floor screeds.
- As a backfill concrete.
- Fabrication of light weight beams, blocks and panels.
- Fire barrier/
- Sound insulation of walls and ceilings.
- As encasement concrete.

Advantages:

- High efficiency even at low dosage.
- Excellent stability in alkaline conditions.
- A 1% aqueous solution creates a stiff white foam with 40 to 50 times increase in volume.
- It can be used with all types of light weight aggregates to produce very low density concrete mixes.

Typing Properties:

Appearance:

Translucent, pale brown liquid

Specific gravity:

About 1.02 at 25⁰C

Solubility:

Infinitely soluble in water.

Chloride Content:

Nil to BS 5075

Water absorption:

Absorption of foamed cement containing 60% voids after 3 months immersion in water, shows only 20% increase in volume.

Toxicity:

Non toxic

Compatibility with cement:

Compatible with Portland cement.

Shelf life:

At least 24 months if stored in tightly closed containers at normal ambient temperature.

Directions for Use

The optimum dosage and performance of MAS FOAMCEM is best assessed after preliminary tests on site using the actual mix design and the job under consideration.

Pre – foaming method:

MAS FOAMCEM is a concentrated material and should be diluted with water to prepare a 1% solution. The diluted solution is used to produce pre – foam by passing through a foam generating machine which produces a uniform and stable foam having a volume of 40 to 50 times that of the original solution. As an alternative, the water and foaming agent can be fed separately into the foam generator, which mixes it uniformly to produce foam. Add the pre – foam into the cement or sand cement slurry within a suitable concrete mixer.

Dosage:

The dosage of MAS FOAMCEM required will vary due to a number of factors including the final mortar density, mixing method and starting materials.

Overdosing:

MAS FOAMCEM is an air-entraining agent. The compressive strength of any mix will get reduced with increase in the content of MAS FOAMCEM as the level of entrained air will be increased.

Overdosing of MAS FOAMCEM will normally produce an increase in air content, workability together with loss in compressive strength.

Mix ratios:

Typical mix batches to produce approximately 1.0m³ of foamed concrete.

Dry density Kg/m ³	Sand Kg.	Cement Kg.	Water Kg.	Foamix Its
1200	780	350	140	0.30
1000	500	400	160	0.32
820	360	360	144	0.33
800	---	600	240	0.21
600	---	450	180	0.31
400	---	310	124	0.63

The above batches involved the use of a prefoaming solution of 1 part of MAS FOAMCEM with 100 parts of water. The most appropriate w/c ratio recommended is 0.4 to 0.45.

Storage:

Preferably store in sealed conventional container, protected from extreme weather conditions.

Packaging:

MAS FOAMCEM is supplied in 200 lit.
PVC Coated Drums

The above information is given to the best of our knowledge based on laboratory test and practical experience. However, as the paint is often used under condition beyond our control, we cannot guarantee anything but the quality of the paint itself. We reserve the right to change the given data without prior notice.

Safety Precautions:

MAS FOAMCEM is non-toxic and non – flammable. Splashes to eyes and skin should be washed off at once with water. It is advisable to use goggles and gloves while handling MAS FOAMCEM.

Foamed concrete made by MAS FOAMCEM is of lightweight and free flowing. It can be placed easily by pumping and does not require compaction or levelling. It has superior strength, excellent resistance to water and frost and provides a high level of sound and thermal insulation. The thermal conductivity of foamed concrete is only 5 to 20% that of dense concrete.

FACTORY : P.O. BOX NO: 23085, SAJJAH INDUSTRIAL AREA, SHARJAH, U.A.E
TEL : 06 – 5311777, FAX 06 - 5311330:
SHOWROOM : P.O. BOX NO: 23085, INDUSTRIAL AREA, SHARJAH, U.A.E
TEL : 06 – 5328533, FAX 06 - 5328610
Website : <http://www.maspaints.com/> Email : masuae@emirates.net.ae



D-111/2004