



KEM FOAMAID 100

Foaming Agent For Light Weight Concrete

Ref. CA/PL-V1-0212

Description

KEM FOAMAID 100 is colourless to brown liquid instantly miscible with water. KEM FOAMAID 100 is used to produce light weight concrete mixes, with or without aggregates.

Uses

- For making Flat roof insulation screeds.
- Insulated floor screeds (under rigid floor finishes).
- Trench reinstatement and road works.
- Fire protection of wooden floors and structural steel works.
- Soil replacement for back filling and ground stabilization.
- Fabrication of lightweight beams, blocks and panels.
- Fire barrier especially in service voids, fire, walls and doors.
- Filling of old underground pipes, tunnels, sewers, storage tanks, shelters and basements.

Advantages

- Can be used in both cold and hot weather.
- Compatible with all types of Portland Cement.
- Very good temperature stability and generally not affected by quality of water.
- Light weight concrete produced using Kem Foam Aid 100 offers excellent sound and thermal insulation.

Typical Properties

Appearance : Translucent to clear, water white to light brown liquid.

Specific Gravity : 1.02 at 20° C.

Water Solubility : Infinite.

pH 1% Solution : 7 ± 0.5

Freezing Point : 3° C to 5° C. Recovers after freezing.

Chloride Content : Nil to BS 5075.

Mix Ratio : Typical mix batches to produce approximately one M3 of foamed cement and mortar:

Dry Density Kg/M3	Sand Kg.	Cement Kg.	Water Kg.	KEM FOAMAID 100 kg.
1250	750	350	140	0.29
1000	500	400	160	0.31
850	360	360	144	0.33
780	-	600	240	0.21
600	-	450	180	0.30
390	-	310	124	0.65

For all the mixes above, a pre-foaming solution of 1 part of KEM FOAMAID 100 with 100 parts of clean water was used.

Standards

ASTM C-869.

Direction for use

Pre-foaming method : Mix thoroughly before use by suitable means or by rolling or lightly stirring containers.

Prepare 1% solution of KEM FOAMAID 100 foaming agent in water (1 litre per 100 Litres of water). Mix well. Pass this pre-foaming solution through the foam generating machine which produces uniform and stable foam having a volume of 35 to 55 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 or neat cement slurry within a suitable concrete mixer.

Post-Foaming Method : This is a simple method of producing light weight concrete.. 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.

The dosage requirement is generally double or more, stability of foam is not as good as the one generated by Foam Generator.

Note :

The dosages and properties in the above table are for guidance only. The performance of concrete admixture is dependent on local conditions and on the quality of other materials in the mix. It is



strongly recommended that site trials are conducted before finalizing the mix proportions.

Packaging

KEM FOAMAID 100 is supplied in 20 litre & 200 litre packs.

Storage and Shelf life

Store under shade, in dry conditions, away from direct sunlight. Shelf life is more than of 24 months in original sealed drums.

Technical Service

Chembond has established itself in various fields on the basis of its dependable technical service. For this purpose, we maintain a well equipped laboratory for research & quality assurance of all products. Our experienced personnel are always on call and would always be available for product demonstrations and product performance monitoring.

Safety precautions

KEM FOAMAID 100 is essentially harmless and biodegradable. Easily washes off with water.

Fire : KEM FOAMAID 100 is non flammable.

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