

EPO FOAM

Foaming Agent for Light Weight Concrete



DESCRIPTION

EPO FOAM is a pale brown liquid foaming agent which is used to produce light weight foam concrete for a variety of insulation and construction applications.

FEATURES

EPO FOAM 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 thaw

USAGE

- Flat roof insulation screed
- Insulated floor screeds (under rigid floor finishes)
- Fabrication of light weight beams, blocks and panels
- Sound insulation of walls and ceilings.
- Fire barrier in service voids, fire walls and doors, As a backfill concrete and ground stabilization
- Fire protection of timber floors and structural steel works.

ADVANTAGES

- Give excellent light weight concrete and thermal insulation.
- High efficiency even at low dosage
- Easy to use even in cold weather.
- Excellent stability over a wide range of temperature and quality of water.
- May be used with all type of Port land cement and light weight aggregate to produce very low density concrete mixes. Give excellent thermal insulation and lightweight

STANDARD COMPLIANCE

EPO FOAM Complies with **ASTM C -869**

PRODUCT DATA

Appearance	Translucent, Pale brown liquid
Specific Gravity	1.03 ±0.02 @ 25°C
Solubility	Infinitely soluble in water
Chloride content	Nil to BS 5075
PH@1% Solution	7 ± 1
Water absorption	Absorption of foamed cement containing 60% voids after 3 months immersion in water shows only 20% increase in
Toxicity	Non Toxic
Shelf life	At least 24 months
Packing	20 kg in Plastic cans

TECHNICAL SPECIFICATION

Dry Density Kg/M ³	Sand Kg	Cement Kg	Water Kg	EPO FOAM Kg/M ³	Thermal conductivity w/m-0K
400	---	320	160	0.65	0.07
500	---	420	215	0.46	0.09
600	---	500	250	0.35	0.11
800	370	370	192	0.33	0.17
1000	500	400	215	0.31	0.22
1200	750	350	184	0.30	0.30



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INSTRUCTION FOR USE

The optimum dosage and performance of **EPO FOAM** is best assessed after preliminary tests on site using the actual mix design and the job under consideration

PRE – FOAMING METHOD

Mix thoroughly before use, Prepare 1 % solution of **EPO FOAM** foaming agent in water (1 liter per 100 liter water) the concentrate must be fully dispersed in the water.

Pass this pre-foaming solution through the foam generating machine which produces 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 pre-foam into the cement or sand –cement slurry with in a suitable concrete mixer.

DOSAGE

The dosage of **EPO FOAM** may vary due to a number of factors including the final mortar density, mixing method and actual materials used in the mix.

OVER DOSAGE

EPO FOAM is an air entraining agent. The compressive strength of any mix will get reduced with the increase of foaming agent content, as the level of entrained air will be increased. Overdosing of **EPO FOAM** will normally produce an increase in air content, workability with loss in compressive strength.

SAFETY PRECAUTION

EPO FOAM is Non-toxic and non- flammable, easily wash off with water.

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