

DESCRIPTION

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

FEATURES

Gulf Foam helps to produce a stable aerated mortar by entrapping air into prepared cement slurry in the shape of discontinued air babbles 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.

USES

- 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

Gulf 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
Toxicity	Non Toxic
Shelf life	At least 24 months
Packing	20 kg in Plastic cans

TECHNICAL DATA

Dry Density Kg/m	Sand Kg	Cement Kg	Water Kg	Gulf Foam Kg/m	Thermal conductivity w/m-0 K
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



INSTRUCTION TO USE

The optimum dosage and performance of Gulf 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 Gulf Foam foaming agent in water (1 liter per 100 liter water) the concentrate must be fully dispersed in the water.

Pass this per-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 per-foam into the cement or sand-cement slurry within a suitable concrete mixer.

DOSAGE

The dosage of Gulf 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

Gulf 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 Gulf Foam will normally produce an increase in air content, workability with loss in compressive strength.

SAFETY PRECAUTION

Gulf Foam is Non-toxic and non-flammable, easily wash off with water.

STORAGE

- Keep the products packed in a dry place.
- Keep away from direct sunlight.
- Do not place the pallets on top of each other.

HEALTH, SAFETY AND ENVIRONMENT

All safety measures should be observed during application. Fire extinguishers should be available at site. Care should be taken with gas, and torch should not be rested on finished surface or on any materials that can be scratched by flame or hot torch. Gloves and goggles should be worn by all workers during application.

Read, understand and follow all Material Safety Data Sheets and product label information for this product prior to use.

TECHNICAL SUPPORT

International Insulation Company (IIC) - Bitugulf technical support team consist of expert engineers offers a comprehensive service support to specifiers, end users and contractors, and on-site technical assistance.

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