



# THT International Co., Ltd

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## CELLULAR CONCRETE BLOCK FOAMING AGENT – THTFA-3

### PRODUCT DESCRIPTION

THTFA-3 Foaming Agent is a highly concentrated, highly efficient, LOW DOSAGE liquid. When processed through a foam generator a solution of THTFA-3 Foaming Agent in water creates a stiff, white foam with a 20 to 25 times increase in volume and NO foam collapse. The foam can easily be incorporated into any mortar mix to make THTFA-3 Lightweight Foamed Concrete, even when using cold water.

THTFA-3 Foaming Agent may be used with all types of cement and incorporated into cement-only or sand-cement mortar slurries to produce foamed concrete of every type and for every application. The cost of THTFA-3 Foaming Agent as a proportion of the total cost of foamed concrete is tiny - typically only about 1 – 3 %.

### SPECIAL FEATURES

- Low cost / high concentration. THTFA-3 Foaming Agent has a LOW USAGE rate and it is this which must be considered when choosing a foaming agent, not just its basic price per litre.
- Excellent stability over a wide range of temperature and water quality. This stability means that the foam bubbles sustain themselves and support the concrete around them. The bubbles DO NOT burst easily and hence the foamed concrete does not collapse when it is made or after it has been placed.
- High efficiency means that a high level of air entrapment is possible, hence low density foamed concrete can be achieved without using excessive foaming agent.
- Lightweight foamed concrete made using THTFA-3 Foaming Agent has excellent strength and thermal insulation properties.

### AREAS OF USE

THTFA-3 Lightweight Foamed Concrete is an extremely versatile material and can be used for a wide range of applications. .

### TECHNICAL DATA

Appearance	translucent, pale brown liquid
Sp. Gravity	1.02
Water solubility	infinite
Dosage rate	0.3 - 0.6 litres per m of foamed concrete produced
pH	6.7 in solution
Freezing point	-3 to -5 °C. Recovers fully after freezing
Chloride Content	less than 0.0001 parts
Packaging	25 kg drums, 200 kg drums and 1000 kg IBCs
Shelf life	several years

### TEST RESULTS

THTFA-3 Lightweight Foamed Concrete is typically made with dry densities from 400 – 1600 kg/m<sup>3</sup> and compressive strengths from 1 – 12 N/mm<sup>2</sup>. This is achieved by varying the mix design of sand:cement:water and the foam addition.

#### High efficiency / Low dosage

Dosage Rate : 0.3 – 0.6 ltrs/m<sup>3</sup>

The vast majority of mix designs used for making the various grades of Lightweight Foamed Concrete typically require 0.3 – 0.6 ltrs of THTFA-3 Foaming Agent per 1m<sup>3</sup> of foamed concrete produced.

Foamed concrete made using THTFA-3 Foaming Agent is lightweight and free-flowing. It can be placed easily, by pumping if necessary, and does not require compaction, vibration or levelling. It has superior strength, excellent resistance to water and frost, and provides a high level of sound and thermal insulation. Its heat conductivity is only about 5 – 20 % that of dense concrete.

## HEALTH & SAFETY

THTFA-3 Foaming Agent is essentially harmless and easily washes off.