



**AKARSH SPECIALITIES**  
HIGH PERFORMANCE CONSTRUCTION CHEMICALS

## **VARAFOAM 100S**

### **FOAMING AGENT FOR LIGHT WEIGHT CONCRETE**

**Shelf Life:** In excess of two years.

#### **DESCRIPTION**

**VARAFOAM 100S** is colourless to light yellow liquid instantly miscible with water. **VARAFOAM 100S** is used to produce light weight concrete mixes, with or without aggregates.

#### **USES**

- ◆ Flat roof insulation screeds including the provision of drainage "falls".
- ◆ Insulated floor screeds (under rigid floor finishes).
- ◆ Filling of old underground pipes, tunnels, sewers, storage tanks, shelters and basements.
- ◆ Trench reinstatement and road works.

#### **ADVANTAGES**

- ◆ Easy to use even in cold weather.
- ◆ May be used with all types of Portland Cement.
- ◆ Excellent stability over a wide range of temperature and quality of water.
- ◆ Give excellent lightweight and thermal insulation.

#### **STANDARDS**

**VARAFOAM 100S** is designed to comply with requirements of **ASTM C-869**.

#### **TYPICAL PROPERTIES**

**Appearance:** Translucent, light brown liquid.

**Specific Gravity:** 1.04 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.

#### **INSTRUCTION FOR USE**

**Pre-foaming method:** Mix thoroughly before use, Prepare 1% solution of **VARAFOAM 100S** foaming agent in water (1 litre per 100 Litres of water). The concentrate must be fully dispersed in the water. Pass this pre-foaming solution through the foam generating machine which produces a uniform and stable foam having a volume of 40 to 50 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 slurry within a suitable concrete mixer.

#### **FORCED MIXING METHOD**

This is the simplest method of air entertainment. 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.

#### **Important:**

Since the performance of concrete admixture is dependent on local conditions and on the quality of the other materials in the mix, it is strongly recommended that the site trials are conducted.

#### **PACKAGING**

**VARAFOAM 100S** is supplied in 50 Kg plastic carbuoys & 200 Kg drum.

#### **PRECAUTIONS**

**VARAFOAM 100S** is essentially harmless. Easily washes off with water. **Fire: VARAFOAM 100S** is non flammable.

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