NOVA FAS 500 S

Synthetic-based Foaming Agent for Low-density Concrete

Description

Nova FAS 500 S is a concentrated solution of selected surfactant materials which is diluted with water before use. It produces a consistent pre-foam that is stable under alkaline conditions and therefore suitable for use in the production of foamed mortars. Foam produced has very fine and stable high-quality foam. Stability and density depend on dilution and setting of the foam generator.

Uses

Nova FAS 500 S can be used to produce foamed low-density mortars. Typical applications include trench filling for road reinstatement, lightweight roofing screeds and the filling of undesirable voids such as old sewers and solvent tanks.

Towers, chimneys, high buildings, slipform structures, tunnel/shaft lining, offshore construction and in-situ piles.

Advantages

- ✓ When used with approved foam generating equipment, produces a consistent pre-foam which is stable under the alkaline conditions of cement mortars.
- ✓ Easily controlled additions of pre-foam to pre-batched mortar allows close control of finished product density.
- ✓ Suitable for production of a wide range of finished densities.
- ✓ Foamed mortar provides an easily placed lightweight product at an economic price.
- ✓ Highly mobile material.

Technical Properties

Appearance	Clear colourless liquid
pH	10
Chloride content	Nil

Compatibility with Cement and Other Admixtures

Nova FAS 500 S is compatible with Portland cement. It should not be mixed with other admixtures. Consult the CCI Technical Service Department for advice on use with special cement or cement replacement materials and use of other admixtures in the same finished mortar.

Limitations

Nova FAS 500 S should not be diluted with water which is below 10˚C in temperature. If water temperatures below 10˚C are encountered, the water can be warmed to above 10˚C by means such as the use of an immersion heater. Dilutions of **Nova FAS 500 S** should not be allowed to cool to below 10˚C. Low temperatures significantly reduce the foaming effectiveness of the product. Dilution should not be made with concrete wash water or water from other sources containing high levels of calcium ions.

Dosage

Dosage may vary depending upon mix design, process, aggregate type, and desired effect. However, the typical dosage would be 2 L of **Nova FAS 500 S** added to 20 L to 25 L of water per m^3 with the help of the foam generating equipment.

Instructions for use

Nova FAS 500 S should be diluted with potable water and used to produce a pre-foam that is mixed into a pre-batched mortar. Varying the amount of foam added to a mortar allows the production of a range of densities of finished product.

Nova FAS 500 S is not intended for direct addition to mortar and use in this manner will not produce foamed systems.

Cleaning & Disposal

Spillages of **Nova FAS 500 S** should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Care should be taken in the disposal of excess or waste material, due to the high bacteriological oxygen demand. Disposal should be carried out in accordance with local water and waste authority regulations.

Packaging

Nova FAS 500 S is available in 50 kg and 200 kg HDPE barrels.

Storage & Shelf life

To be stored away from heat and frost. Best before 12 months from the date of manufacture.

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Fire

Nova FAS 500 S is water-based and nonflammable.

Health & Safety

Before use, refer to the Material Safety Data Sheet (MSDS). The MSDS is available on www.ccichemicals.in or contact us at info@ccichemicals.in.

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