SKY®

Concrete Foaming Agent

RAMKA
CONSTRUCTION
CHEMICALS

SKY® liquid concrete foaming agent contains special chemical surfactants, has very low bubble breakdown, and produces stable foam. It is suitable for pneumatic and mono-pump foam-concrete equipment. The generated bubbles are 0.3 to 0.8 mm in diameter. The product is diluted with water in a tank and passed through a lance by a hydraulic pump or compressed air to produce a creamy foam. The quantity calculated in the mix design is then introduced into a mixer and blended with cement and water to produce foam concrete.

Applications

- Production of different CLC blocks.
- Production of lightweight wall panels.
- Roof-screed slope-forming projects.
- Production of thermally and acoustically insulating concrete blocks and panels.
- Insulation of heating and cooling installations.
- Production of lightweight concrete for filling sewer voids and tunnels.
- Production of foam concrete for road maintenance and building floors.

Approvals / Standards

- ASTM C796
- ASTM C869
- ACI 523.1R - 06

Advantages / Benefits

- Neutral pH, suitable for services and metals embedded in floors.
- Produces stable, creamy foam.
- Produces concrete with suitable relative strength.
- Reduces setting time in cold seasons.
- Produces concrete resistant to freezing.

Guideline for Use

For at least 1 m^3 of foam concrete, dissolve the product in water at a 1:50 ratio and pass the diluted solution through a lance or foam generator to produce creamy foam. Add the foam to a mixer containing water, cement, aggregate, and other specified constituents, then mix to produce dense, lightweight foam concrete. Simultaneous use of polypropylene fibres in the mixer helps prevent surface cracking and increases the strength of the lightweight concrete.

Dosage

Average consumption is 500 g to produce 1 m^3 of foam concrete. The amount may vary with factors including lance type, ambient temperature, and project materials; determine the exact amount through site trials before use. If used with other concrete admixtures, contact RAMKA technical specialists to prevent performance interference.

Storage

+10 to +30 °C; store in dry conditions away from direct sunlight.

Packaging

20 kg pail / 1100 kg tank

Shelf Life

One year in the original packaging.

Health and Safety

- This material is not hazardous to human health or the environment, but it must not be swallowed or allowed to contact the eyes.
- In case of accidental contact with skin or eyes, immediately rinse the affected area with plenty of fresh water.
- If swallowed, seek medical attention immediately.
- Refer to the Material Safety Data Sheet (MSDS).
- This material is non-flammable.

Basis Of Data

Product Information

Chemical base	Chemical surfactants
density	1.03±0.03 g/cm^3
pH	7±2
Chloride ion	None

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