

ShieldFoam AI

High-performance, Ready to Use Liquid Air-entraining Agent



MICSHIELD®

Description

ShieldFoam AI is a high-performance liquid air-entraining agent suitable for all types of concrete and mortar. It improves the production of lightweight foamed concrete with lower density while preserving excellent workability and uniform consistency.

Uses

- For normal, lightweight, and foamed concrete.
- Filling below underfloor heating systems.
- Roof and floor Insulation.
- Suitable for filling trenches, abandoned pipes, and underground voids.
- Used in the production of lightweight blocks, panels, and partition walls.

Characteristics / Advantages

- Suitable for all types of concrete and mortar.
- Improves workability.
- Easy pumping.
- Non-flammable, safe to handle and store.
- Enhances long-term durability by increasing resistance to freeze-thaw cycles, deicing chemicals, sulfates, and seawater exposure.
- Non-corrosive and free from harmful chlorides.
- Reduces bleeding and segregation in fresh concrete.

Packaging

ShieldFoam AI is supplied in 25 L, 205 L drums, or 1000 L bulk.

Shelf Life and Storage

ShieldFoam AI has a shelf life of 12 months when stored in its original unopened packaging in dry conditions. Shelf life may be reduced if the recommended storage conditions are changed.

Typical Properties

Color / Appearance	Pale yellow liquid
Density @25°C	1.03 ± 0.02 kg/L

Application Instructions

1. Direction of Use

Add **ShieldFoam AI** slowly into the concrete during the mixing stage of water or aggregates. Mix for at least 3–5 minutes to achieve a homogeneous mixture.

ShieldFoam AI is added to the mixer before, during, or after dosing of other concrete materials. It can be applied using a foam generator.

2. Dosage

The guidance dosage of **ShieldFoam AI** is 0.5 – 1.0 L/m³. Dosage depends on desired concrete density and the foam turbine.

Preliminary testing is recommended to determine the optimum amount.

3. Compatibility

ShieldFoam AI is compatible with all types of Portland cement and all commonly used concrete additives and performance-enhancing chemicals.



Limitations

- An overdose of **ShieldFoam AI** may cause a reduction in both density and compressive strength.
- Each admixture should be added separately; pre-mixing with other additives is not recommended.

Technical Support

Refer to technical information, method statement, or technical support team for any inquiry.

Address: Manaseer Group, 8th Circle, King Abdullah II St. 302
P.O. Box 925988 Amman, 11110, Jordan

Phone +962 6 5800600
Fax. +962 6 5833890

Email: info.shield@manaseer-ic.com
Website: www.manaseergroup.com

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