



Technical Data Sheet

Durafoam100 Air entraining agent for concrete

Description

Durafoam 100 is an air entraining admixture for concrete, formulated from selected polymers specially designed to create microscopic air bubbles that are uniformly distributed in the concrete mix. This effect can be used to improve concrete cohesion and resistance to freeze thaw cycles.

Durafoam 100 complies with ASTM C260.

Applications

- In concrete mixes for roadways, airport runways and other concrete exposed to potential frost damage.
- To increase the durability of concrete and its resistance to damage by frost and de-icing salts.
- To increase cohesion of concrete mixes to overcome bleed, segregation and sand runs where poorly graded aggregate with high fine content needs to be used.

Advantages

- Greatly improves cohesion, reduces segregation and bleeding.
- Increased freeze/thaw cycle resistance.
- Improves workability and plasticity.
- Exceptionally effective with aggregate with high fine content.
- Suitable for mixes containing PFA, GGBS and microsilica.
- Chloride free.

Technical Properties

Color:	Clear liquid
Freezing point:	0°C approximately
Specific gravity: @ 25°C	1.00–1.02
Chloride content: BS5075	Nil



Compatibility

Durafoam 100 can be used with all types of Portland cement and cement replacement materials.

Durafoam 100 is compatible with other Envirocon admixtures used in the same concrete mix. If more than one type of admixture is to be used in concrete mix, they must be dispensed to the concrete separately.

Dosage

The guidance dosage of **Durafoam 100** to achieve air content of $5\% \pm 2\%$ in the concrete mix is 0.06 to 0.30 liter per 100 kg of cementitious material in the mix, including GGBFS, PFA or microsilica.

Method of Use

Durafoam 100 should be added to the concrete with the mixing water to achieve optimum performance.

Effects of over dosage

Over dosage of **Durafoam 100** will cause the following:

- Significant increase in air content which cause reduction in the compressive strength.
- Slight increase in setting time.

Disclaimer:

We hope that the information herein will be helpful. The data is based upon knowledge considered to be accurate and true and is offered for the user consideration, investigation and verification in the application intended. We do not warrant the results or performance attained due to the nature of the influence of other constituent components in the application.



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Points to be considered that affecting air entrainment

Any variation in the following factors will cause change in the air content:

- Cement fineness.
- Concrete temperature.
- Sand grading.
- Mixture types.
- Compaction method.
- Carbon or organic impurities.

Storage

Durafoam 100 shelf life is 12 months if stored at temperatures between 2°C and 50°C.

If these conditions are exceeded, Envirocon technical department should be contacted for advice.

Cleaning

All tools should be cleaned using fresh water.

Packaging

Durafoam 100 is available in 25 liter pails, 210 liter drums and 1000 liter bulks supply.

Cautions

Health and safety

Durafoam 100 is not classified as hazardous material. **Durafoam 100** should not come into contact with skin and eyes.

In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly. Consult material safety data sheet for more information.

Fire

Durafoam 100 is non-flammable.

E n v i r o c o n C o n s t r u c t i o n P r o d u c t s L L C



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