

AERBETON

AIR-ENTRAINING ADMIXTURE FOR ANTIFREEZE DURABLE CONCRETE

It improves mixture pumpability



DRACO

CONCRETE
LINE

AIR-ENTRAINING
ADMIXTURES FOR
CONCRETE



AERBETON is a micro air entraining admixture for concrete resistant to freeze-thaw cycles. It increases durability, improves appearance and workability, reduces segregation, water bleeding and permeability. Its plasticizing action is useful when crushed aggregates or sand with low fines content are used, and however in lean concrete.

ADVANTAGES

AERBETON is an air entraining admixture for concrete. The product has the following characteristics:

- ✓ It increases the cohesion and plasticity of the mixture.
- ✓ It reduces the W/C ratio.
- ✓ It improves pumpability.
- ✓ It reduces segregation, plastic shrinkage and water bleeding.
- ✓ It improves durability and resistance to freeze-thaw cycles.



USES

AERBETON is specially designed for the following applications:

- ✓ ready-mix, pumped concrete in road and airport paving, bridges, canals;
- ✓ concrete made with light aggregates;
- ✓ durable concrete used in the construction of structures exposed to freeze-thaw cycles which comply with EN 206-1 and UNI 11104 (exposure classes XF2 - XF3 - XF4).
- ✓ The plasticizing action of **AERBETON** is useful when crushed aggregates or sand with low fines content are used, and however in lean concrete.

DOSAGE AND APPLICATION

Dosage rates for **AERBETON** fall between 0.05 and 0.15% on cement weight, that is between 50 g and 150 g per 100 kg of cement. **AERBETON** entraps from 2 to 6% of air micro-bubbles in concrete. Such differences depend on the type and quantity of fine aggregates, cement class and type, W/C ratio and the use of superfine aggregates – fly ash, pozzolana etc. – if any, and temperature. **AERBETON** is a ready-for-use liquid. Pour it into the concrete mixer with water. **Please note** that in order to define the right dosage of **AERBETON** and obtain the requested air volume, you should perform some preliminary tests at the concrete plant using the same materials – cement, aggregates etc. – that will be used for the construction of the structure. By entraining micro-bubbles into the concrete mixture, mechanical strengths are reduced by about 20%. Take this value into account depending on the project Rck. For the production of concrete resistant to freeze-thaw cycles, it is recommended to add a superplasticiser of the DRACRIL or FLUIPAV series.

© Copyright 2012 - All rights reserved - The information in this data sheet is based on our knowledge of the product at the time of publication. Changes may occur depending on the accuracy of every step of the application procedure over which we have no control. For this reason, our warranty only covers the quality and consistent compliance of the products with the specifications provided. This data sheet invalidates and supersedes the previous ones.

PACKAGING AND STORAGE

AERBETON is available in:

- 5-10-20 kg cans
- 200 kg drums
- 1.000 kg tanks.

If properly stored in a sheltered, dry place in its original container, the product maintains its properties for 12 months. It is sensitive to frost.



PRODUCT CHARACTERISTICS

APPEARANCE	liquid
COLOUR	amber
DENSITY - UNI EN ISO 758	approx. 1.02 ± 0.02 kg/l at +20°C
CLASSIFICATION - UNI EN 934-2	air entraining admixture for concrete (T5)
WATER SOLUBLE CHLORIDE CONTENT - EN 480-10	max. 0.1% by mass
ALKALI CONTENT AS Na_2O -EQUIVALENT - EN 480-12	max. 0.5% by mass
DOSAGE	50÷150 g per 100 kg of cement
SHELF-LIFE	12 months

PRECAUTIONS

Always wear gloves and safety glasses; adopt standard precautions in handling and using chemical products. For further information, please refer to the safety data sheet.

Legal notes - SLCMP version of 01.03.2017

Draco Italiana s.p.a. has adopted the parameters indicated in this data sheet and the related standards for the calculation of the values and technical data contained herein.

Customers shall verify that this data sheet and the values indicated herein apply to their product batch and have not been superseded by later editions. If in doubt, verify that the sheet corresponds to the one available on the website www.draco-edilizia.it at the time the sales contract was executed and/or by previously contacting the Technical Department. Any suggestions on the use of the Products provided by our personnel either orally or in writing upon the Customer's request do not constitute additional obligations to the purchase contract and do not imply a contractual obligation for the company. They are based on our experience and limited to the current state of practical and/or scientific knowledge. They are not binding for the client or for the installer. It is the Customer's responsibility to test our products and verify they are suitable for the type of application and use envisaged.