



ELEMENTS
QUÍMICA APLICADA

CONTROL AIR

Air detaining admixture for concrete mixes

e⁵ CONTROL AIR

Description

e⁵ CONTROL AIR is an admixture that allows a controlled decrease in air content in concrete mixes. The air can be due to various reasons, amongst which we can mention: the chemicals used during cement grinding or some other addition, the use of aggregates from river banks or some chemical bases used during the production of chemical admixtures for concrete, etc. The factors mentioned and some others can provoke important air inclusions that can result in diminished mechanical strengths and even, and with higher frequency, delamination problems in concretes for industrial floors.

Benefits

- Allows decreasing air content in the concrete mix, up to acceptable limits, according to the application of the final product.
- Excellent in concretes for industrial floors that require the use of dry-shake concrete hardeners, while maintaining the air content established by ACI 302.

Technical information

Specific gravity 1.0

pH 7.0

Physical appearance: amber liquid

Presentation

19 kg pail, 200 kg drum

x Useful life: 24 months in its original container

Principal applications

- High performance concretes
- Self consolidating concretes
- Industrial floor concretes
- High mechanical strength concretes
- Concretes containing silica fume
- Conventional concretes

Directions for use

For better results we recommend lab tests with job materials in order to make all the necessary adjustments in the concrete mix, such as appearance, workability, consistency, air content, yield, setting time and the admixtures' dosage. Then, it is important to repeat the tests under real job conditions (humidity, temperatura, time to deliver: mixer to job site, etc.) with the purpose of making the final adjustments.

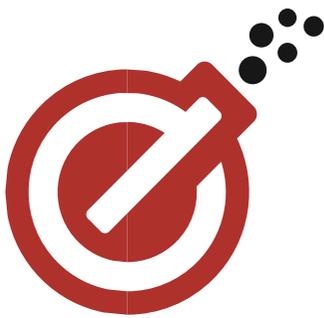
Dosages can vary from 10 to 50 mL e⁵ CONTROL AIR per cubic meter of concrete, depending on the concrete mix design to be used.

To improve results, dilute the amount of e⁵ CONTROL AIR calculated for the mixer, in a bucket with 10 L of water, then add the contents to the mixer before loading the materials. This will increase the efficiency of the product. Subtract the volume of water used in the dilution from the total mix water. Avoid the direct addition to the concrete mix or after loading since this diminishes the efficiency. During concrete sampling, the verification of the air content is recommended.

Cautions

-  Perform tests in combination with other admixtures in order to look for synergias, specially in air content.
-  Do not use with fluid fillers or light weight concretes.
-  Any important change in materials (change of aggregates, cement, etc.) will require the necessary adjustments in the dosages used.
-  Do not allow the product to freeze.
-  Always store the product in its original container.





ELEMENT5

QUÍMICA APLICADA

ELEMENT5 Química Aplicada S.A. de C.V. guarantees that the product complies with the established quality and is exempt of manufacturing defects, as long as the product is dated within the established expiration date. **ELEMENT5** Química Aplicada S.A. de C.V. does not extend any type of additional guarantee, given that we do not control variables present in the handling and application of the product. The present document only contains general recommendations. The technical interpretation that might derive in the specification of our products, is not contained in this document. What is not written in this document and guarantee is not contemplated. If it is necessary to know the details of any information in reference to the products or recommendations from which the described procedures are generated, please contact the **ELEMENT5** Química Aplicada S.A. de C.V. technical department and visit our web page where our privacy statement is presented.

Date of the last revision January 2016

ELEMENT5

División Químicos para la Construcción
Carr. Lago de Guadalupe No. 127 Int. 601, Margarita
Maza de Juárez, Atizapán de Zaragoza, Estado de
México, Cp. 52926.
Tel. +52 55 2484 2236 | +52 55 5384 0203 | +52 55 3778 9384
contacto@element5.mx
www.element5.mx