

Centrament Air 203

Air-entraining Agent

Product Properties

- Entraining of air micro-pores
- Free of corrosion promoting components
- Renders concrete more elastic, easier to compact and improves workability
- Effectuating a homogenous mixing of the concrete and reduces its tendency to de-mix and bleed

Areas of Application

- Ready mixed
- Concrete with a high resistance against frost and de-icing salts
- Precast elements

Application Notes

Concrete made with Centrament Air 203 contains a multitude of micro-pores. These air-pores are finely distributed within the cement stone of the concrete and are interspersed with and interrupt the capillary pore system. This ensures that freezing water has enough space to expand.

Centrament Air 203 entrains very finely distributed air micro-pores (< 0,3 mm) into the concrete.

Typical areas of application are the construction of concrete road surfaces, bridge curbs, sluices, parking lots or runways. (Exposure categories XF 2 – XF 4)

The pore content of the concrete depends on the concrete composition, the temperature of the fresh concrete and of the surroundings, the consistency (water content), the type of cement as well as the powder-grain content, type and duration of mixing as well as on transportation times.

Centrament Air 203 is added during mixing or to the concrete mixture together with the added water. Wet-mixing should last at least 45 seconds to ensure the air-entraining agent is fully activated.

For ready mixed concrete, the air-pore content of the fresh concrete should be calculated to ensure that the required pore-content is given at the time of on-site inspection (allow a safety margin). To this end, it is necessary to undertake a suitability test under the same conditions as are found at the construction site at the time of concreting. Relevant regulations must be observed.

If several admixtures are used simultaneously, adequate testing must be performed beforehand.

Please note the “General Information on the Use of Concrete Admixtures”.



Technical Data for Centrament Air 203

Characteristic	Unit	Value	Comments
Density	kg/dm ³	approx. 1.02	-
Recommended Dosage	g	2 - 15	per kg of cement
Max. Chloride Content	%	< 0.10	per weight
Max. Alkali Content	%	< 2.0	per weight

Product Characteristics for Centrament Air 203

Type of Admixture	air-entraining agent EN 934-2: T5
Name of Admixture	Centrament Air 203
Colour	brown
Consistency	liquid
Certificate of Conformity	0754-CPD-02-1065.2
Notified Authority	MPA, Karlsruhe
Internal Production Supervision in accordance with DIN EN ISO 9001 / DIN EN 934-2/6	
Colour Code	blue
Form of Delivery	190 kg barrels 1,000 kg containers

Property specifications are based on laboratory tests and may vary in practical application. To determine the individual technical suitability, preliminary suitability tests should be carried out under the application conditions.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 08/10. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.

②