

CHRYSO® Air D

Air entraining admixture



CHRYSO® Air D is an air entrainer which creates the formation of stable microscopic air bubbles in concrete and mortar.

CHRYSO® Air D effectively protects concrete from frost/thaw cycles and the action of defrosting salts.

In fresh concrete, **CHRYSO® Air D** has a plasticising - water reduction effect at constant workability.

It limits the amount of segregation and reduces, or even eliminates bleeding.

The uniform structure of the bubbles reduces capillary action.

CHRYSO® Air D was developed to reduce the risk of high air contents if over dosed.

Indicative characteristics

- Nature: liquid
- Colour: Light yellow
- Freezing point: -1 °C
- Shelf life: 12 months

Specifications

- Specific gravity (20°C): $1,005 \pm 0,005$
- pH: $9,00 \pm 2,00$
- Solid content (halogen): $2,00\% \pm 0,15\%$
- Solid content (EN 480-8): $2,05\% \pm 0,15\%$
- Na₂O equivalent: $\leq 0,50\%$
- Cl⁻ ions content: $\leq 0,10\%$

Norms and regulations

- This product conforms to CE marking. The appropriate declaration can be found on our internet site.
- This product conforms to NF 085 certification, which technical specifications are those applied in the non harmonised part of NF EN 934-2.
- Adresse AFNOR - 11, Avenue de Pressensé - 93571 Saint Denis La Plaine Cedex

Domains of application

- All cement types
- Concrete exposed to freeze thaw
- Extruded concrete
- Optimisation of coarse sand particle size distribution
- Dams
- Motorway slabs
- Marine construction
- Civil Engineering
- Airport runways
- Reservoirs

Precautions

Should the product freeze, it will recover its properties. After thawing, an efficient agitation is necessary until the product is entirely homogeneous again.

Method of use

Dosage: 0.08 to 0.80 kg for 100 kg of cement.

A 0.3% dosage of the product of the weight of cement is commonly used.

This product is completely miscible in water.



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The optimum dosage of this product can only be established after trial tests, taking into account the rheological characteristics and the required mechanical performances of the concrete.

It is added to the mixing water before mixing or on the aggregates.

The air entrained is essentially a fictive aggregate. It must be considered as such, reductions in sand must be made according to the extra quantity of air entrained.

The total quantity of entrained air in concrete must be checked periodically as it varies with the nature of the aggregates and the water/cement ratio.

Tests

Example of results obtained according to the methods defined in the ISO 4848 certification concerning air content. Type of concrete: CEM I grade 42.5 (SSB 3200 - 4000 cm²/g and C3A: 7-11%).

Tests carried out at equal consistency.

Safety

This product is classified as "harmless". In case of exposure, it is recommended to wear your protective equipment.

Before use, refer to the safety data sheet on our internet site www.chryso.com

	Workability	Entrained air %	Compressive strength 28 days(MPa)
Control	50mm Slump	1.6	36.3
Control + 0.2% CHRYSO® Air D	50mm Slump	5.2	35.2



The information contained in this technical data sheet is given to the best of our knowledge and the result from extensive testing - which were conducted in order to remain as objective as possible. However, it cannot, in any case, be considered as a warranty involving our liability in case of misuse or any different use of our products, other than those from the «Application» paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users. Please enquire for the most recent version of the technical data sheet, available on www.chryso.com.

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