TECHNICAL DATA SHEET

Chryso Concrete Solutions

05/12/2024

CHRYSO®Air G100

Air entraining admixture

DESCRIPTION

CHRYSO®Air G100 is an air entraining agent which creates stable microscopic air bubbles in concrete and mortar.

CHRYSO®Air G100 effectively protects concrete from frost/thaw cycles and the action of defrosting salts due to the spreading of particularly small size of air bubbles entrained and stabilized.

Using **CHRYSO®Air G100** prevents many compatibility problems between cement / sand / admixtures. Its highly effective action ensures its compatibility with all types of superplasticizers, and especially with **CHRYSO®Optima** and **CHRYSO®Premia** ranges.

BENEFITS

CHRYSO®Air G100 creates a matrix of stable, evenly distributed air bubbles in both the fresh and hydrated concrete.

In fresh concrete, **CHRYSO®Air G100** also has a plasticising effect. It limits the amount of segregation and reduces, or even eliminates, bleeding.

PACKAGING

- 210 L drum
- IBC 1000L

FIELDS OF APPLICATION

CHRYSO®Air G100 is recommended for all concrete and mortar mixes where low density and entrained air are required.

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

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INDICATIVE INFORMATION

Product Nature	liquid
Color	Clear to Light Yellow
Lifetime	18 months
Cl^- Ions content	≤ 0,100 %
Equivalent Content NA_2O	≤ 0,50 %
Dry extract (EN 480-8)	3,50 % ± 0,000
Dry Extract (SYNAD - IFSTTAR)	3,40 % ± 0,00
Specific gravity	1,000 ± 0,020
pH	7,00 ± 2,00

Cl^- ion content: nil to EN 934 and BS 5075.

TEST SITE

Examples of results obtained according to the methods defined in the ISO 4848 certification concerning air content. Concrete based on a CEM I 42.5 cement (SSB: 3200–4000 cm^2/g and C3A: 7%-11%). Tests carried out for equal consistency.

METHOD OF USE

0.04 to 1.00 kg for 100 kg of cement.

- This product is completely miscible in water.
- The optimum dosage of this product can only be established after trial tests, taking into account the rheological properties, the stength performances and factors acting on workability.
- A 0.4% dosage to the weight of cement is commonly used. The dosage of an air entraining agent is dependent on the quantity of air required and on the different elements present in the concrete mix design.
- The preferred method (but not exclusive), is to add it to the mixing water before introducing into the concrete mixer.
- Because local job conditions vary, please contact your local CHRYSO sales representative for further assistance if using outside recommended dosage ranges.

PRECAUTIONS

- Protect from frost.
- Avoid prolonged exposure to high temperatures.
- Should the product freeze, it will recover its properties. After thawing, an efficient agitation is necessary until the product is entirely homogeneous again.

Compatibility:

- **CHRYSO®Air G100** is compatible with all types of Portland cement, class C and F fly ash, GGBS, microsilica, fibers.
- **CHRYSO®Air G100** is compatible with other CHRYSO admixtures when used in the same concrete mix, but should be added to the mix separately and must not be mixed together prior to addition.

NORMATIVE AND REGULATORY INFORMATION

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

SITE REFERENCES

Viaducts over Motorway A85 (Ingrandes aka "La Perrée" and Roumer), France.

SAFETY

CHRYSO®Air G100 is not considered dangerous to handle.
Prior to any use, please read carefully the Material Safety Data Sheets.

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