

# CHRYSO® AIREN

Air entraining admixture

## DESCRIPTION

**CHRYSO®Airen** is an air entraining admixture, which enables to form stable microscopic air bubbles in concrete and mortars. The uniform spreading of micro air bubbles entrained in concrete, stabilized & effectively protects concrete from frost / defrost cycles and the action of defrosting salts.

### Domains of application

- All cement types
- Concrete exposed to freeze thaw
- Extruded Concrete
- Dams, Reservoirs
- Light Weight Concrete
- Optimization of coarser particle size distribution

## BENEFITS

In fresh concrete, **CHRYSO®Airen** has a plasticizing effect at constant workability. The air bubbles act as fine particles, and increase the workability of the concrete. It helps stabilizing water in the fresh concrete. Therefore, it limits segregation and reduces, even prevents, bleeding. The air bubbles network created reduces the capillarity phenomenon. It avoids compatibility problems between cement/sand/admixtures. It resists extreme thermal variation and frost action. It is beneficial for lightweight concrete applications, improving workability and reducing bleeding tendency. It is useful in reducing the density of light weight concrete blocks, to ensure that blocks meet thermal insulation requirements. It by means of entraining air, generates cost savings for the concrete producer.

## INDICATIVE INFORMATION

<b>Product Nature</b>	liquid
<b>Color</b>	Light Amber
<b>Lifetime</b>	12 months
<b>Water solubility</b>	Infinitely Soluble
<b>Cl<sup>-</sup> ions content</b>	≤ 0,200 %
<b>Specific gravity</b>	1,015 ± 0,010
<b>pH</b>	8,00 ± 2,00

## METHOD OF USE

Optimum dosage can only be established after trials, taking into account the rheological characteristics and the required mechanical performances. For maximum dispersion throughout the mix, It should be added separately from mixing water. Should the product be added to fresh concrete, into the mixing truck, it is necessary to mix at high speed, then at low speed (with a minimum 3 minutes at each speed).

### Dosage :

As a guideline, the rate of addition generally varies between 0.05% to 0.5 % by weight of cement.

### Implementation :

**Guideline Followed : IS: 9103-2007 and ASTM C-260.**

## PRECAUTIONS

- Protect from frost.
- Homogeneise before use.

Preferably store in sealed conventional containers, protected from extreme weather conditions. Over dosing will normally produce an increase in air content, workability together with loss in compressive strength.

## SAFETY

Prior to any use, please read carefully the Material Safety Data Sheets.