

# CHRYSO®FOAM

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## High Performance Foaming Agent

### ■ Features

**CHRYSO@FOAM** is chemical blend of organic compounds intended to assist the generation of stabilized air-entrainment during the production of low density concrete and mortar systems.

**CHRYSO@FOAM** is specifically intended for the production of low density mortar systems such as perlite and vermiculate.

**CHRYSO@FOAM** can also be used as a normal air-entraining agent for conventional concrete and mortars.

### ■ Benefits

• **CHRYSO@FOAM** creates a matrix of stable, evenly distributed air bubbles in both the fresh and hydrated system employed.

• **CHRYSO@FOAM** prevents segregation of the cement and low density aggregates such as vermiculite / perlite or other low density aggregates such as polystyrene beads.

• **CHRYSO@FOAM** reduces density due the air-entrainment increases the workability of the mix.

• **CHRYSO@FOAM** does not require mechanical mixing to entrain air, however, a mixer is recommended.

• **CHRYSO@FOAM** has all the attributes of conventional air entraining admixtures.

- **CHRYSO@FOAM** does not retard or affect the hydration characteristics of concrete or mortars.
- **CHRYSO@FOAM** Reduce Density up to 30% mass reduction depending on the system used and mixing equipment employed.
- **CHRYSO@FOAM** Increase cohesiveness - preventing separation of dissimilar materials and differing densities.
- **CHRYSO@FOAM** improve workability - the micro air bubbles entrained act as ball bearings, lubricating the mix.

### ■ Areas of Application

**CHRYSO@FOAM** is recommended for all concrete and mortar mixes where low density and entrained air is required.

1. All types of cement
2. Highway slabs, runways
3. Dams, reservoirs
4. Road & maritime construction
5. Compensation of the harshness of some natural sands with low fine particle content
6. Concrete exposed to thaw
7. Extruded concrete

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### ■ Description:

#### Characteristics:

**CHRYSO®FOAM** is a chemically stable liquid.

1. Nature : liquid
2. Colour : Straw coloured clear solution
3. Density :  $1.030 \pm 0.020$
4. pH :  $7 \pm 2$
5. Cl<sup>-</sup> ions content: nil to EN 934 and BS 5075

**CHRYSO®FOAM** does not contain any purposely added calcium chloride or other chloride based components. It will not promote or contribute to corrosion of reinforcing steel in concrete.

#### Packaging:

- IBC: 1000 L
- Drums : 200 L

#### Standard specifications:

**CHRYSO®FOAM** conforms to BS-EN 934

### ■ Directions for use:

#### Dosage

between 100 and 1000 ml per 100 kg of cement. A 0.4 % dosage of the product to the weight of cement is commonly used.

**CHRYSO®FOAM** is completely miscible in water. It should be added along with the mixing water to maximise its effect. The correct quantity of **CHRYSO®FOAM** should be measured using a recommended dispenser.

The optimum dosage of **CHRYSO®FOAM** can only be established after trial tests, taking into account local conditions, materials and specification requirements.

Because local job conditions vary, please contact your local CHRYSO sales representative for further assistance if using outside recommended dosage ranges.

#### Compatibility:

**CHRYSO®FOAM** is compatible with all types of Portland cement, class C and F fly ash, slag, micro silica, calcium chloride, fibers.

#### Precaution:

- Should the product freeze, its properties can be recovered after thawing and agitating thoroughly.
- Spillage of **CHRYSO®FOAM** should be absorbed onto sand earth or vermiculite and disposed through authorised waste management companies. Remnants can be hosed down with large volumes of water.
- Shelf life: 12 months.
- **CHRYSO®FOAM** 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.

#### ■ Safety:

**CHRYSO®FOAM** is not considered dangerous to handle. Please refer to the material safety data sheet for additional information. **CHRYSO®FOAM** is non-flammable.

#### About CHRYSO:

Worldwide leader for cement and concrete additives for over 70 years, **CHRYSO** has been designing, producing, specifying and delivering its added-value solutions to the construction professionals with outstanding innovation and quality service. As a result, **CHRYSO**'s brand and products have been associated with the most prestigious and demanding construction projects over the globe.

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