

# CHRYSO® Air G100

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### Air Entraining Agent

#### ■ Description

**CHRYSO®Air G100** is air entraining agent creating a stable network of microscopic air bubbles in concrete, when introduced in concrete. **CHRYSO®Air G100** effectively protects concrete against frost/ defrost cycles and the action of defrosting salts.

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

Using **CHRYSO®Air G100** avoids compatibility problems between cement/sand/admixtures.

It is also compatible with all types of superplasticizers.

#### Characteristics:

**CHRYSO®Air G100** is a chemically stable liquid.

- Nature : liquid
- Colour : Light Yellow
- Density :  $1.005 \pm 0.005$
- pH :  $7.0 \pm 1$
- Freezing point: about 0°C
- Cl- ions content nil to EN 934 and BS 5075
- Na<sub>2</sub>O equivalent:  $\leq 0.1\%$

**CHRYSO®Air G100** 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.

#### ■ Areas of Application

**CHRYSO®Air G100** is recommended for all concrete mixes..

1. All types of cement
2. Highway slabs, runways
3. Dam, 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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### ■ Packaging:

- IBC : 1000 L
- Drums : 200 L
- Pails : 20 L

### ■ Directions for use:

#### Dosage

Between 0.04 to 0.6 kg per 100 kg of cement.

**CHRYSO® Air G100** is completely soluble in water. The preferred method (but not exclusive), is to add it to the mixing water before introducing into the concrete mixer. The quantity of water will depend on the plasticity required.

The optimum dosage of **CHRYSO® Air G100** can only be established after trial tests, taking into account local conditions affecting the workability of the mix and the mechanical properties required from the concrete. Please contact your local CHRYSO sales representative for further assistance if using outside recommended dosage ranges.

### Conformity:

**CHRYSO® Air G100** is an air entraining agent which conforms to CE marking. The appropriate declaration can be found on our internet site.

**CHRYSO® Air G100** also conforms to NF 085 certification, whose technical specifications are those applied in the non harmonized part of the NF EN 934-2.

### Precaution:

- Store away from frost. Use **CHRYSO® Air G100** at a temperature superior to 0°C.
- Should the product freeze, its properties can be recovered after thawing and agitating thoroughly.
- Shelf life: 18 months.

### ■ Safety:

**CHRYSO® Air G100** is a product classified as "harmless". It is recommended to wear the normal protective equipment. Please refer to the material safety data sheet for additional information.

### 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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**CHRYSO®Air G100**

**Producer**

**Arshia Orang Co.**

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**Tehran, Iran**

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**Fax: +98 21 88075715**

**1. Identification of the product and the company**

Identification of the product: Liquid.

Company identification: See producer.

Trade name: **CHRYSO®Air G100**

Type of product: Acrylic based Curing compound.

Use: Industrial.

**2. Information on ingredients**

Aqueous solution containing surfactants – CAS No: 8051-30-7

**3. Hazards identification**

Symptoms relating to use

- Inhalation: Overexposure to vapors may result in: Headache. Cough.
- Skin contact: Repeated or prolonged skin contact may cause irritation.
- Eye contact: Eye irritant upon direct contact.
- Ingestion: Must not come into contact with food or be consumed. Swallowing a small quantity of this material presents some health hazard. Abdominal pain, nausea

**4. First aid measures**

- Inhalation: Assure fresh air breathing.  
Obtain medical attention if breathing difficulty persists.
- Skin contact: Wash skin thoroughly with mild soap and water.  
Seek medical attention if irritation develops.
- Eye contact: Rinse immediately with plenty of water.  
Seek medical attention immediately.
- Ingestion: Rinse mouth. DO NOT INDUCE VOMITING. Seek medical attention immediately.

**5. Fire - fighting measures**

- Extinguishing media: Carbon dioxide. Foam.
- Protection against fire: Wear proper protective equipment.  
Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures: Exercise caution when fighting any chemical fire.

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**CHRYSO®Air G100****6. Accidental release measures**

- Personal precautions: Equip cleanup crew with proper protection.
- Environmental precautions: Prevent entry to sewers and public waters.  
Notify authorities if liquid enters sewers or public waters.
- After spillage and/or leakage: Clean up any spills as soon as possible, using an absorbent material to collect it.

**7. Handling and storage**

- Storage: Store in dry, well-ventilated area. Keep container closed when not in use.
- Handling: Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

**8. Exposure controls | personal protection**

Personal protection



- Respiratory protection: Where exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.
- Hand protection: Gloves.
- Skin protection: Wear proper protective equipment.
- Eye protection: Goggles.
- Ingestion Industrial: Don't eat or drink.
- hygiene: Provide good ventilation in process area to prevent formation of vapor.

**9. Physical and chemical properties**

- Physical state: Liquid.
- Color: Light Yellow
- Odor: Characteristic.
- pH value: 6.0 to 8.0
- Density: > 1
- Solubility in water: Complete.

**10. Stability and reactivity**

Hazardous reactions: None under normal conditions.

**11. Toxicological information**

Rat oral LDSO [mg/kg]: No data available.

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**CHRYSO®Air G100**

**12. Ecological information**

LCSO-96 Hour - fish [mg/l] : No data available.

**13. Disposal considerations**

Disposal: Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container at hazardous or special waste collection point.

**14. Transport information**

Exempt from transport classification and labelling, transportation of **CHRYSO®Air G100** must be in compliance with the provisions of ADR for road, RID for rail, IDMG for sea and the ICAO/IATA for air transport. Suitable for air transport.

**15. Regulatory information**

Symbol(s) R: None.

Phrase(s) S: None.

Phrase(s): None

**16. Other information**

Further information: None.

The contents and format of this MSDS are in accordance with EEC Commission Directive 2001/58/EC.

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