

# CHRYSO® Fluid IR AS 105

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### Superplasticizer – High Range Water Reducer

#### ■ Features

**CHRYSO® Fluid IR AS 105** is a polynaphthalene based synthetic polymer.

It promotes excellent dispersion of particles in concrete, resulting in a major improvement in the workability.

It produces high quality pumpable concrete with extended workability retention.

The mechanical strength of flowing concrete is not changed when using **CHRYSO® Fluid IR AS 105**

#### ■ Benefits

- Enhances the workability retention of concrete in hot climates.
- High water reduction ability.
- The dispersion properties of **CHRYSO® Fluid IR AS 105** allow the user to optimise the cement content when a specified mechanical strength is required.
- As the particles are highly dispersed, the hydration of the binder is enhanced, resulting in a substantial water reduction and an increase in both early age and ultimate compressive strength of over 30%.

#### ■ Areas of Application

**CHRYSO® Fluid IR AS 105** is recommended for all concrete mixes where water content, improved cementitious material performance, high workability retention and high strengths characteristics are desirable.

1. All types of cement
2. Heavy prefabrication
3. High performance concrete
4. Pre-stressed concrete
5. Ready-mix concrete
6. Concrete of humid, plastic or fluid consistency
7. High strength concrete with high workability retention
8. Compatible with Micro silica, GGBS and Fly Ash.

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### ■ Description:

#### Characteristics:

**CHRYSO® Fluid IR AS 105** is a chemically stable liquid.

1. Nature : liquid
2. Colour : Brown
3. Density :  $1.22 \pm 0.020$
4. pH :  $8 \pm 2$
5. Cl<sup>-</sup> ions content nil to EN 934 and BS 5075

**CHRYSO® Fluid IR AS 105** 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:

- Bulk
- IBC: 1000 L
- Drums : 215 L
- Pails: 20 L

#### Standard specifications:

Conforms to ASTM C 494 Type A, F and G and BS EN 934-2

### ■ Directions for use:

#### Dosage

between 0.3 and 2.5 kg per 100 kg of cement. A 1.0 % dosage of the product to the weight of cement is commonly used.

**CHRYSO® Fluid IR AS 105** is completely miscible in water. It can be added to part or all of the mixing water depending on the required plasticity. The correct quantity of **CHRYSO® Fluid IR AS 105** should be measured using a recommended dispenser.

To make high workability concrete, best results are obtained when **CHRYSO® Fluid IR AS 105** is added directly into the mixer. For ready-mix concrete, **CHRYSO® Fluid IR AS 105** can be added into the truck mixer just before placing the concrete, then mix again for at least 2 min before pouring.

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

#### Compatibility:

**CHRYSO® Fluid IR AS 105** is compatible with all types of Portland cement, class C and F fly ash, slag, micro silica, calcium chloride, fibers and approved air entraining admixtures.

#### Precaution:

- Store away from frost. Use **CHRYSO® Fluid IR AS 105** at a temperature superior to 0°C.
- Should the product freeze, its properties can be recovered after thawing and agitating thoroughly.
- This product must be stored in plastic containers, but not in PVC.
- Shelf life: 12 months.

#### ■ Safety:

**CHRYSO® Fluid IR AS 105** is not considered dangerous to handle. 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.

Manufactured under License by,



No.17, 5th St., North Falamak Ave., Shahrak Gharb  
Tel: +98 21 88370130 up to 4 - Fax: +98 21 88075715  
Zip1467885484 Tehran, Iran - E-mail: info@arshiaorang.com