

# CHRYSO®MS IR 920

## CHRYSO®MS IR 920



### Modified Micro Silica Gel Additive

#### ■ Features

**CHRYSO®MS IR 920** is a modified micro silica gel including special polymer additives to enhance the fresh and hard concrete properties

**CHRYSO®MS IR 920** is supplied as a grey gel ready to use in concrete mix design.

**CHRYSO®MS IR 920** is chloride, bituminous and ammonia free.

#### ■ Benefits

• **CHRYSO®MS IR 920** is especially recommended for concrete requiring high early age and long term strengths, whilst maintaining the workability.

• **CHRYSO®MS IR 920** Improve dramatically the durability of concrete, by reducing permeability and enhancing strength at all ages, furthermore the concrete will be more resistant to chemicals attack.

• **CHRYSO®MS IR 920** enhance the fresh concrete properties by reducing bleeding and mix tendency to segregation when poor aggregates are used.

• The usage of **CHRYSO®MS IR 920**, will make the concrete mix more cohesive which improve the pumpability.

• **CHRYSO®MS IR 920** Improves the efficiency of cement in concrete, effectively reducing the quantity of cement required to achieve specified concrete properties

• The special formulation of **CHRYSO®MS IR 920** will improve the workability of fresh concrete and slump retention, to certain extend, without the addition of a plasticizing admixture.

#### ■ Areas of Application

**CHRYSO®MS IR 920** is recommended for all concrete mixes where low permeability and high concrete specifications are required.

1. All types of cement
2. Heavy prefabrication
3. High performance concrete, ultra high performance concrete
4. Pre-stressed concrete
5. Ready-mix concrete
6. Concrete of humid, plastic or fluid consistency
7. Self-levelling concrete
8. High strength concrete with high workability retention
9. Compatible with GGBS and Fly Ash.
10. durable concrete
11. Concrete with high resistance to chemicals

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### ■ Description:

#### Characteristics:

**CHRYSO®MS IR 920** is a chemically stable Gel.

1. Nature : Gel
2. Colour : Grey
3. Density :  $1.380 \pm 0.030$
4. pH :  $6 \pm 2$
5. Cl<sup>-</sup> ions content: nil

**CHRYSO®MS IR 920** 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:

– Pails: 20 L

### ■ Directions for use:

#### Dosage

between 3 and 10 kg per 100 kg of cement. A 5 % dosage of the product to the weight of cement is commonly used.

**CHRYSO®MS IR 920** can be added to the water before mixing the concrete. However, it can be added to the concrete after mixing. The correct quantity of **CHRYSO®MS IR 920** should be measured using a recommended dispenser.

The optimum dosage of **CHRYSO®MS IR 920** 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®MS IR 920** is compatible with all types of Portland cement, class C and F fly ash, slag, calcium chloride, fibers and approved air entraining admixtures.

#### Precaution:

- Store away from frost. Use **CHRYSO®MS IR 920** at a temperature superior to 0°C.
- Should the product freeze, its properties can be recovered after thawing and agitating thoroughly.
- Spillage of **CHRYSO®MS IR 920** 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: 6 months.

### ■ Safety:

**CHRYSO®MS IR 920** 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.

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