Concrete admixture

CHRYSO®Optima IR 270R

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Technical Datasheet

Superplasticizer – High Range Water Reducer

■ Features

CHRYSO®Optima IR 270R is a new generation superplasticizer – high range water reducer, based on modified polycarboxylate.

CHRYSO®Optima IR 270R is especially recommended for concrete requiring high early age and long term strengths, whilst maintaining the workability.

CHRYSO®Optima IR 270R enables the production of concrete with very low W/C ratios.

CHRYSO®Optima IR 270R enables the production of self-leveling concrete.

■ Benefits

• Enhances the workability retention of concrete in hot climates.

• High water reduction ability.

• The dispersion properties of **CHRYSO®Optima IR 270R** allow the user to optimise the cement content when a specified mechanical strength is required.

■ Areas of Application

CHRYSO®Optima IR 270R is recommended for all concrete mixes where water content, improved cementitious material performance , high workability retention and very high strengths characteristics are desirable.

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 Micro silica, GGBS and Fly Ash.

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CHRYSO®Optima IR 27OR

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■ Description:

Characteristics:

CHRYSO®Optima IR 27OR is a chemically stable liquid.

1.Nature : liquid
2.Colour : Yellow
3.Density : 1.08 ± 0.020
4.pH : 5 ± 1
5.Cl^- ion content : ≤ 0.1 %
6.Na_2O equiv. : ≤ 1.0 %

CHRYSO®Optima IR 270R 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

■ Directions for use:

Dosage

between 0.3 and 2.0 kg per 100 kg of cement. A 0.8 % dosage of the product to the weight of cement is commonly used.

CHRYSO®Optima IR 270R can be added to the water before mixing the concrete. However, it can be added to the concrete after mixing.

Dosage rates of **CHRYSO®Optima IR 270R** are dependent upon desired concrete performance characteristics and variables including cement quantity and chemistry, concrete temperature and curing conditions.

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

Compatibility

CHRYSO®Optima IR 270R is compatible with all types of Portland cement, class C and F fly ash, slag, microsilica, calcium chloride, fibers and approved air entraining admixtures.

Precaution:

- Store away from frost. Use **CHRYSO®Optima IR 270R** 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®Optima IR 270R 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,

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