

CHRYSO®Tard IR 100

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New Generation, Set Retarder

■ Features

CHRYSO®Tard IR 100 delays the hydration of Portland and blended cements used to manufacture concrete with limited impact on strengths development.

CHRYSO®Tard IR 100 coats the hydrating cement particles in the concrete resulting in the suspension of the hydration chemical reaction. At the end of setting, the concrete hardens rapidly and high compressive strength is obtained after 28 days.

■ Benefits

• Combined, at low dosage (<0.4%), with **CHRYSO®** water reducers **CHRYSO®Tard IR 100** allows for pre-defined extension of concrete workability up to several hours.

• **CHRYSO®Tard IR 100** is specially recommended for concrete jobs where extended setting time and limited impact on strengths development is required.

• **CHRYSO®Tard IR 100** has no surface tension effects. Its use in concrete modifies in no way the consistency of concrete.

■ Areas of Application

CHRYSO®Tard IR 100 is recommended for all concrete mixes where high setting time, extended workability is required.

1. All types of cement
2. Compatible with GGBS and Fly Ash.
2. Mass concrete and tiling mortar
3. Piles, diaphragm walls and RCC
4. Pouring of concrete at high temperature
5. Transport of concrete over long distances
6. Cold joints prevention

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■ Description:

Characteristics:

CHRYSO®Tard IR 100 is a chemically stable Liquid.

1. Nature : liquid
2. Colour : pale yellowish brown
3. Density : 1.150 ± 0.020
4. pH : 2.5 ± 2
5. Cl⁻ ions content: nil

CHRYSO®Tard IR 100 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

■ Directions for use:

Dosage

between 0.20 and 2.0 kg per 100 kg of cement.

The optimum dosage of CHRYSO®Tard IR 100 to meet specific requirements must always be determined by trials using the materials and conditions that will be experienced in use. This allows the optimization of admixture dosage and mix design and provides a complete assessment of the concrete mix.

CHRYSO®Tard IR 100 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®Tard IR 100 should be measured using a recommended dispenser.

The retarding effect of CHRYSO®Tard IR 100 is proportional to the dosage used. The optimum dosage of CHRYSO®Tard IR 100 can only be established after trial tests, taking into account local conditions cement quantity and chemistry and concrete temperature.

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

Compatibility

CHRYSO®Tard IR 100 is compatible with all types of Portland cement, class C and F fly ash, slag, fibers and approved air entraining admixtures.

Precaution:

- Store away from frost. Use CHRYSO®Tard IR 100 at a temperature superior to 0°C.
- Spillage of CHRYSO®Tard IR 100 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®Tard IR 100 does not fall into the hazard classification of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately – do not induce vomiting.

Refer to Material Safety Data Sheet available from CHRYSO.

About CHRYSO:

CHRYSO is a subsidiary of the multi-billion dollar specialty construction chemicals Group, Materis.

Worldwide leader for Concrete and Cement additives, CHRYSO has been servicing the construction Industry for over half a century with outstanding innovation and service.

As a result, CHRYSO's name and products have been associated with the most prestigious and demanding construction projects worldwide.

Manufactured under License by,



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