TECHNICAL DATA SHEET

Chryso Concrete Solutions

18/11/2025

CHRYSO®Plast Omega 112

Water reducing plasticiser

DESCRIPTION

CHRYSO®Plast Omega 112 is classified as a water reducing plasticiser according to SANS 50934-2:2011 (EN 934-2:2009). The admixture thus induces the following major effects on a concrete mix:

- Without affecting the consistence, permits a reduction in the water content or
- Without affecting the water content, increases the slump/flow or
- Produces both of the above effects simultaneously.

BENEFITS

- **CHRYSO®Plast Omega 112** is a multidose admixture, allowing a wide range of dosages to be applied, without any excessive retardation at the higher dosages.
- The multi-dose characteristic of **CHRYSO®Plast Omega 112** allows concrete to exhibit extended workability characteristics.
- **CHRYSO®Plast Omega 112** is often used when problematic fine aggregates are components of a concrete mix.
- **CHRYSO®Plast Omega 112** reduces the rate of bleeding in a concrete mix.
- **CHRYSO®Plast Omega 112** improves the cohesion and lowers the viscosity of a concrete mix. This results in an improved homogeneity, allowing for superior off-shutter finishes.
- By reducing the need to add extra water, **CHRYSO®Plast Omega 112** increases the durability of concrete.
- **CHRYSO®Plast Omega 112** is robust to differences in cement characteristics.
- **CHRYSO®Plast Omega 112** does not undermine the early age strength of concrete.
- In common with all water reducing/ plasticising admixtures, the use of **CHRYSO®Plast Omega 112** reduces the overall cost of a cubic metre of concrete. This in turn, allows less cement to be used in order to achieve the same objective, resulting in a solution which is environmentally friendly.

PHYSICAL and CHEMICAL PROPERTIES

Product Nature	Liquid
Color	Brown
Lifetime	12 months
Water solubility	Miscible
Cl^- Ions content	≤ 0,100 %
Equivalent Content Na_2O	≤ 2,00 %
pH	8,00 ± 2,00
Specific Gravity	1.13 ± 1

METHOD OF USE

- Readymix concrete
- High workability concrete
- Pumped concrete
- Highly reinforced concrete
- Roller compacted concrete

Dosage :

- The optimum dosage of **CHRYSO®Plast Omega 112** can only be established by using trial tests, taking into account local conditions affecting the workability of the fresh mix and the mechanical properties required of the concrete.

Typical:

- By volume: 0.27 to 0.72 litres per 100 kg of cementitious material (including extenders)
- By weight: 0.3 to 0.8 kg per 100 kg cementitious material (including extenders)

Range:

- By volume: 0.09 – 0.89 litres per 100 kg of cementitious material (including extenders)
- By weight: 0.29 to 0.82 kg per 100 kg cementitious material (including extenders)

Dispensing/mixing

- CHRYSO®Plast Omega 112 is completely miscible in water.
- CHRYSO®Plast Omega 112 should never be added to dry cement or to components of a mix that are dry.
- CHRYSO®Plast Omega 112 can be added to concrete using one of the following methods:
- To the gauge water before mixing: CHRYSO®Plast Omega 112 should be added to approximately 90% of the concrete's total gauge water requirement (including admixture). The remaining 10% of the concrete's total gauge water requirement (without admixture) should be added in small increments until the target concrete workability is achieved.
- As a component of the mixing process: Should be added simultaneously with approximately 90% of the concrete's total gauge water requirement.

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Standards

- **CHRYSO®Plast Omega 112** conforms to EN 934-2:2009 (table 2) and conforms to the requirements of ASTM C494 Type A.

PACKAGING

- Bulk delivery on request
- 1000 ℓ flow bin
- 200 ℓ drum
- 25 ℓ jerry can

- To fresh mixed concrete in a readymix truck drum: Reverse the readymix
  truck drum to discharge at very slow revolutions. When the concrete reached the mouth of the drum, stop the drum. Place CHRYSO®Plast Omega 112 on the concrete and not onto any exposed surface of the drum interior. Change the direction of the drum onto mixing and thoroughly mix the concrete at maximum permissible drum rpm, in order to ensure effective dispersion of CHRYSO®Plast Omega 112 throughout the concrete. (a minimum of 1 minute per 1 cubic metre of concrete; therefore 6 cubic metres = 6 minutes).

PRECAUTIONS

Storage

- **CHRYSO®Plast Omega 112** has a shelf life of 12 months starting from the manufacturing date – provided no other chemicals are added to it.
- The product should be stored away from the rain and frost in clean, dry tanks.
- Prevent product from freezing.

SAFETY

This product is classified as harmless. **CHRYSO** will provide onsite assistance when requested.
Prior to any use, please read carefully the Material Safety Data Sheets.

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