

Technical data sheet

CHRYSO® Plast RCC

Plasticiser for roller compacted concrete.

Description

CHRYSO®Plast RCC 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.

Advantages

- Improves cement dispersion in semi-dry mixes, creating a homogenous mix.
- Enhances the compaction of concrete, resulting in less time needed for vibration.
- In common with all water reducing/plasticising admixtures, the use of CHRYSO®Plast RCC 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.
- Controlled retardation extends the working life and the stiffening time for ease of construction, minimising delay problems.

Standards

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

Physical and chemical properties

- Physical state: liquid
- Specific gravity (25°C): 1.13 (±0.02)
- Colour: dark brown
- Cl ions content: NIL
- Solubility in water: miscible

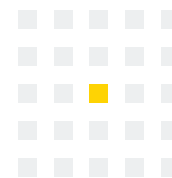
Application guidelines

Use

- All Portland cement
- Roller compacted concrete

Dosage

- The optimum dosage of CHRYSO®Plast RCC 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: 0.3 to 0.5 litres per 100 kg of cementitious material (including extenders)
 - By weight: 0.34 to 0.56 kg per 100 kg cementitious material (including extenders)
- Range:
 - By volume: 0.27 – 0.5 litres per 100 kg of cementitious material (including extenders)
 - By weight: 0.3 to 0.58 kg per 100 kg cementitious material (including extenders)



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Dispensing/mixing

- CHRYSO®Plast RCC is completely miscible in water.
- CHRYSO®Plast RCC should never be added to dry cement or to components of a mix that are dry.
- CHRYSO®Plast RCC can be added to concrete using one of the following methods:
 - To the gauge water before mixing:
CHRYSO®Plast RCC 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.

Storage

- CHRYSO®Plast RCC 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.

Packaging

- Bulk taker loads
- 1 000 litre flobin
- 200 litre blopak
- 25 litre jerrycan

Health and safety

This product is classified as harmless. CHRYSO will provide onsite assistance when requested. Refer to the material safety data sheet.

Disclaimer: The information contained in this document is given to the best of CHRYSO's knowledge and is the result of extensive testing. However, this document will not under any circumstances be considered as a warranty involving CHRYSO's liability in case of misuse. Tests should be carried out before any use of the product to ensure that the methods and conditions of use of the product are satisfactory. CHRYSO specialists are at the disposal of the users in order to help them with any problems encountered.