

Technical data sheet

CHRYSO® Plast Omega 134

High range water reducing plasticiser

Description

CHRYSO®Plast Omega 134 is a water reducing plasticiser. CHRYSO®Plast Omega 134 is a result of hybrid polymer technology. Its molecular structure has been especially designed to give a cohesive, workable mix.

Standards

CHRYSO®Plast Omega 134 conforms to EN 934-2:2009 (table 2) and conforms to the requirements of ASTM C494 Type A and Type D.

Advantages

- CHRYSO®Plast Omega 134 is a multi-dose 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 134 allows concrete to exhibit extended workability characteristics.
- CHRYSO®Plast Omega 134 reduces the rate of bleeding in a concrete mix.
- CHRYSO®Plast Omega 134 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 134 increases the durability of concrete.
- CHRYSO®Plast Omega 134 is robust to differences in cement characteristics.
- CHRYSO®Plast Omega 134 does not undermine the early age strength of concrete.
- CHRYSO®Plast Omega 134 should be used in mixes where there is a deficiency of fines in the fine fraction of the fine aggregates.

Physical and chemical properties

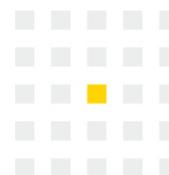
- Physical state: liquid
- Colour: brown
- Specific gravity (20 °C): 1.07 (± 0.01)
- pH: 6 (± 2)
- Cl ions content: ≤ 0.1 %
- Na₂O: ≤ 2%
- Dry extract (halogen): 23,5% (±1,1%)
- Dry extract (EN 480-8): 23,7% (± 1,1%)
- Solubility in water: miscible

- In common with all water reducing/plasticising admixtures, the use of CHRYSO®Plast Omega 134 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.
- CHRYSO®Plast Omega 134 allows for the reduction of cement per cubic metre, whilst meeting a specified characteristic strength.
- CHRYSO®Plast Omega 134 assists in achieving good early and late strengths.

Application guidelines

Use

- Readymix concrete
- High workability concrete
- Pumped concrete
- Highly reinforced concrete
- Plastic concrete
- Precast concrete



Technical data sheet

CHRYSO® Plast Omega 134

High range water reducing plasticiser

Dosage

- The optimum dosage of **CHRYSO®Plast Omega 134** 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 1.6 ℓ per 100 kg of cementitious material (including extenders)
 - By weight: 0.3 to 1.5 kg per 100 kg cementitious material (including extenders).

Dispensing/mixing

- **CHRYSO®Plast Omega 134** is completely miscible in water and it is best to add it to the mixing water.
- Should the product be added to fresh concrete and into the truck mixer, it is necessary to mix at high speed (1 minute per m³ concrete) with a total minimum of 6 minutes.

Storage

- **CHRYSO®Plast Omega 134** 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.
- After freezing, the properties of **CHRYSO®Plast Omega 134** can be recovered by thawing and agitation.

Packaging

- 25 ℓ jerry can
- 200 ℓ drum
- 1000 ℓ flow bin
- Bulk tanker loads
- Delivery on request

Health and safety

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

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.