

## Technical data sheet

# CHRYSO® Plast CER

## Water Reducing Plasticiser

### Description

Due to its specific formula, **CHRYSO®Plast CER** is an additive which results in an increased dispersion of the particles in concrete.

### Standards

- **CHRYSO®Plast CER** conforms to the requirements of SANS 50934-2 (EN 934-2) Table 2). These requirements are approximate equivalents of ASTM C494 Type A and D.

### Advantages

- **CHRYSO®Plast CER** optimises the dosage of cement necessary to obtain a given compressive strength. For an equivalent plasticity and after reducing the quantity of mixing water:
  - the concrete is denser,
  - there is reduced capillary action,
  - depending on the dosage, there is an increase in compressive strength after 24 hours.
- **CHRYSO®Plast CER** has water repellent properties and can therefore be used to reduce the permeability of concrete.
- Using **CHRYSO®Plast CER** also improves the waterproofing of concrete.

### Application guidelines

#### Use

- All types of cement
- Ready-mix concrete with stable workability
- Heavy prefabricated elements
- Pre-stressed and pumped concrete
- Reinforced concrete in general

### Physical and chemical properties

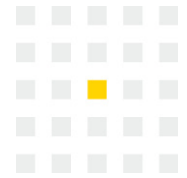
- Physical state(@25°C): liquid
- Specific gravity (@25°C): 1.130 (±0.010)
- Colour: light brown
- pH: 6.0 (±1.0)
- Viscosity(@25°C): 10 -15 secs (ford#4 cup)
- Cl ions content < 0,1%
- Na<sub>2</sub>O equivalent: ≤ 3.5%
- Solubility in water: miscible

### Dosage

- The optimum dosage of **CHRYSO®Plast CER** 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.
- Range:
  - By volume: 0.18 to 0.71 litres per 100 kg of cementitious material (including extenders)
  - By weight: 0.2 to 0.8 kg per 100 kg cementitious material (including extenders)
- 0.3% dosage of the product to the weight of cement is commonly used.
- From 0.2 to 0.35% the water reducing effect is dominant.
- Above 0.35%, there is a secondary retarding effect.

### Dispensing/mixing

- **CHRYSO®Plast 900** is completely miscible in water. It must be added to the mixing water.



## Technical data sheet

# CHRYSO<sup>®</sup> Plast CER

## Water Reducing Plasticiser

### Storage

- CHRYSO<sup>®</sup>Plast CER has a shelf life of 18 months starting from the manufacturing date - provided no other chemicals are added to it.
- The product should be stored away from rain and frost in clean, dry tanks.
- After freezing, the properties of CHRYSO<sup>®</sup>Plast CER can be recovered by controlled thawing and agitation.

### Packaging

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

### Health and safety

- This product is classified as harmless. CHRYSO will provide onsite assistance when requested.
- For more information, please 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.