



# CHRYSO®Premia 145S

High range water reducing Super plasticizing admixture

## DESCRIPTION

**CHRYSO®Premia 145S** is a new generation superplasticizer – high range water reducer, based on patented **CHRYSO®** polycarboxylate technology.

**CHRYSO®Premia 145S** is especially recommended for concrete requiring high early age and long term strengths, whilst maintaining the workability retention depending on cement chemistry.

## BENEFITS

- Dramatically increases early compressive and flexural strengths without detriment to ultimate strengths
- Enhances the workability retention of concrete particularly in hot climates.
- The dispersion properties of **CHRYSO®Premia 145S** allow the user to optimise the cement content when a specified mechanical strength is required.
- As the particles are highly dispersed, the hydration of the binder is enhanced, resulting in a substantial water reduction and an increase in both early age and ultimate compressive strength of over 30%.

## FIELDS OF APPLICATION

- All cement types
- High early strength
- Plastic or fluid concretes
- Prestressed concrete
- High performance Concrete - Very High Performance Concrete - Ultra High Performance Concrete
- All concretes
- Precast

## CHARACTERISTICS

<b>Product Nature</b>	liquid
<b>Color</b>	Light brown
<b>Lifetime</b>	12 months
<b>Specific gravity</b>	1,050 ± 0,020
<b>pH</b>	8,00 ± 2,00

## NORMATIVE AND REGULATORY INFORMATION

- This product conforms to CE marking. The appropriate declaration can be found on our internet site.
- This product conforms to ASTM 494 Type A, E and F, and BS EN 934-2.

## METHOD OF USE

- A 1.0% dosage of the product of the weight of cement is commonly used.
- **CHRYSO®Premia 145S** is completely miscible in water. It can be added to part or all of the mixing water depending on the required plasticity. The correct quantity of **CHRYSO®Premia 145S** should be measured using a recommended dispenser.
- To make high workability concrete, best results are obtained when **CHRYSO®Premia 145S** is added directly into the mixer. Because local job conditions vary, please contact your local **CHRYSO** sales representative for further assistance if using outside recommended dosage ranges.

### Dosage :

0.5 to 2 litres for 100 kg of cement.

## PRECAUTIONS

- Use at a temperature above 0° C.
- Store in plastic containers, PVC excluded.
- Should the product freeze, some crystals may appear, which will disappear after agitating or when the temperature is positive again.

## SAFETY

**CHRYSO®Premia 145S** is not considered dangerous to handle. Please refer to the material safety data sheet for additional information.

## TECHNICAL DATA SHEET



**Chryso  
Concrete  
Solutions**

10/10/2024

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### PACKAGING

- 1000 L IBC
- 200 L drum
- 20 L bucket

The information contained in this document is given to the best of our knowledge and is the result of extensive and controlled testing. However, it cannot under any circumstances be considered as a warranty involving our liability in the case of misuse. Tests should be conducted before the product is used to ensure that the methods and conditions of use of the product are satisfactory. Our specialists remain at the disposal of customers if they require help with the application of the product for their specific needs. [www.chryso.ph](http://www.chryso.ph)  
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