TECHNICAL DATA SHEET

Chryso Concrete Solutions

08/10/2026

Chryso®WRDA 17

Water reducing Plasticizing admixture

DESCRIPTION

Chryso®WRDA 17 is a liquid water-reducing admixture developed for use in a wide range of ready-mixed concrete applications under all seasonal conditions. It acts by adsorption on cement particles, producing a powerful deflocculating effect that improves concrete workability and performance.

Through effective water reduction, Chryso®WRDA 17 can be used to increase compressive strength or to reduce cement content, improving mix economics. The product also contributes to reduced concrete permeability. It is manufactured under controlled conditions to ensure consistent quality and conforms to **EN 934-2**.

BENEFITS

- Typical water reduction of approximately **10%**
- Increased compressive strength, impermeability, and durability
- Enables cement content reduction
- Excellent consistence retention
- Predictable and controlled retardation characteristics within the dosage range
- Compatible with fly ash and GGBS concretes
- Particularly effective in high ambient temperature conditions
- Extends placing and compaction time
- Improves concrete cohesion

FIELDS OF APPLICATION

Chryso®WRDA 17 is suitable for:

- Ready-mix concrete
- General construction concrete
- Applications requiring improved workability and durability

The product is compatible with most Portland cements and is effective in concretes containing fly ash or ground granulated blastfurnace slag (GGBS).

Chryso®WRDA 17 is compatible with Chryso admixtures commonly used in concrete production.

- Each admixture must be added separately
- The presence of other chemical admixtures may influence performance

Consult **Chryso Technical Services** when using combined admixture systems.

INDICATIVE INFORMATION

Product Nature	Liquid
Color	Dark brown
Lifetime	12 months
Cl^- Ions content	< 0,100 %
Equivalent Content Na_2O	≤ 0,90 %
Specific gravity	1,190

METHOD OF USE

Dosage :

Typical dosage range:

- **300 – 800 ml per 100 kg of cement**
- Equivalent to **0.30 – 0.80%** by weight of cement

As a guide for initial trials, an addition rate of **0.30 – 0.50%** by weight of cement is recommended. Optimum dosage should be determined through site trials using actual materials.

Chryso®WRDA 17 is supplied ready for use.

- Add the admixture with part of the batching water after the addition of cementitious materials
- After addition, a further mixing cycle of **at least two minutes** is recommended to ensure full dispersion

Automatic dispensing equipment is preferred to ensure accurate dosing.

PRECAUTIONS

- Store away from extremes of temperature
- Protect from frost
- Keep containers sealed and out of direct sunlight

SAFETY

For health, safety, and environmental information, refer to the relevant Safety Data Sheet.

Standard chemical handling precautions apply. Avoid contact with skin and eyes. Suitable personal protective equipment should be worn.

For further information, please refer to the safety data sheet on our internet site www.uk.chryso.com.

The information contained in this document is given to the best of our knowledge and is the result of extensive and controlle d t esting. However, it cannot under any circumstances be considered as a warranty involving our liability in the case of misuse. Tests should be con ducted 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.

CHRYSO UK Ltd. - 1 Herald Way, Binley Industrial Estate, Coventry, United Kingdom, CV3

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Air Entrainment	< 0.5%

PACKAGING

- 15L Container
- Container of 1000L
- Bulk delivery on request

ADDITIONAL INFORMATION

Increasing dosage within the recommended range will increase consistence and retardation of set. These effects may be more pronounced when using cement replacement materials or in cold weather.

Accidental overdosing may result in extended setting times, particularly under low-temperature conditions. When properly cured, overdosed concrete will generally achieve equal or higher ultimate strength. Suspected overdosing should be assessed in the plastic state, with particular attention to consistency and cohesiveness.

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