

Chryso®WRDA P4

Water reducing Plasticizing admixture

DESCRIPTION

Chryso®WRDA P4 is a liquid water-reducing plasticising admixture developed for use across a wide range of concrete applications under all seasonal conditions. It acts by adsorption on cement particles, producing a powerful deflocculating effect that improves concrete performance.

Through effective water reduction, Chryso®WRDA P4 can be used to increase compressive strength or to reduce cement content, improving mix economics. It also contributes to reduced concrete permeability. The product is formulated 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
- Effective and predictable water-reducing performance
- Limited and controlled retardation characteristics within the dosage range
- Compatible with fly ash and GGBS concretes
- Particularly beneficial in hot-weather concreting
- Improves cohesion of concrete

FIELDS OF APPLICATION

Chryso®WRDA P4 is suitable for:

- Ready-mixed concrete
- General construction concrete
- Concreting operations in high ambient temperatures
- 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 P4 is compatible with admixtures commonly used in concrete production.

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

Consult Chryso Technical Services where combined admixture systems are used.

INDICATIVE INFORMATION

Product Nature	Liquid
Color	Dark brown
Lifetime	12 months
Cl ⁻ ions content	≤ 0,100 %

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 established through site trials using actual materials.

Chryso®WRDA P4 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 effective dispersion

Automatic dispensing equipment is preferred for accurate and consistent dosing.

PRECAUTIONS

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

If frozen, allow the product to thaw and mix thoroughly before use.

NORMATIVE AND REGULATORY INFORMATION

Chryso®WRDA P4 conforms to **EN 934-2** for water-reducing admixtures.

SAFETY

For health, safety, and environmental information, refer to the relevant **Safety Data Sheet (SDS)**.

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

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Equivalent Content Na ₂ O	≤ 1,00 %
Specific gravity	1,190
Air Entrainment	<0.5%

PACKAGING

- 15L Container
- Drum 205L
- Container of 1000L
- Bulk delivery on request

ADDITIONAL INFORMATION

Increasing dosage 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. When properly cured, overdosed concrete will generally develop higher ultimate strength. Suspected overdosing should be assessed in the plastic state with particular attention to consistency and cohesiveness.