

Chryso®WRDA 30

Water reducing Plasticizing admixture

DESCRIPTION

Chryso®WRDA 30 is a water-reducing plasticiser that significantly improves early and ultimate strengths through effective water reduction. It is suitable for a wide variety of concrete applications and is ideal for ready-mixed concrete where extended transit or placement times are required.

The admixture is formulated from specially selected polymer systems to optimise dispersing performance and enhance cement hydration.

BENEFITS

- Achieves water reductions of approximately 10%, improving compressive strength, impermeability and durability.
- Supports cement content reductions.
- Low dosage capability with effective water reduction.
- Provides limited and predictable retardation characteristics within normal dosage ranges.
- Performs exceptionally well in concrete mix designs containing cement replacements such as GGBS or fly ash.
- Particularly useful in high ambient temperatures, helping extend working and placement time.
- Improves cohesion of concrete.

FIELDS OF APPLICATION

- Suitable for a wide variety of ready-mixed concretes.
- Effective in high-performance concretes and mixes incorporating fly ash or ground granulated blast-furnace slag (GGBS).

INDICATIVE INFORMATION

Product Nature	Liquid
Color	Dark brown
Lifetime	12 months
Cl ⁻ Ions content	≤ 0,100 %
Equivalent Content Na ₂ O	≤ 1,50 %
Specific gravity	1,195
Flash Point	-3 °C
Air Entrainment	< 0.5%

PACKAGING

- Container of 1000L
- Bulk delivery on request

ADDITIONAL INFORMATION

METHOD OF USE

- Supplied ready for use.
- Add in its supplied form with part of the batching water after cement addition.
- Mix for a minimum of **2 minutes** after adding the admixture to ensure full dispersion.

Dosage:

- Recommended dosage range: 200–500 ml per 100 kg cement (0.20–0.50% v/w).
- Suggested trial rate: 0.30–0.40% by weight of cement.
- Optimum dosage should be determined using site trials with actual materials.

Implementation :

- Chryso®WRDA 30 is compatible with other Chryso admixtures normally used in concrete production, provided each admixture is added separately.
- When multiple admixtures or chemicals are used, performance may vary; Chryso Technical Team should be consulted where necessary.
- For use with special cements, contact Chryso Technical Team for guidance.

PRECAUTIONS

- Store away from extreme temperatures and protect from frost.
- Keep containers out of direct sunlight and in shaded storage.

NORMATIVE AND REGULATORY INFORMATION

Chryso®WRDA 30 conforms to EN 934-2.

SAFETY

Avoid contact with skin or eyes; use suitable protective equipment. For further information, please refer to the safety data sheet on our internet site www.uk.chryso.com.

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- Increasing dosage within the recommended range will increase concrete consistence and retardation of set, especially when using cement replacement materials or in cold conditions.
- Accidental overdosing may lead to additional delay in setting time; however, when properly cured, overdosed concrete will generally achieve higher ultimate strength.
- Planned or suspected overdosing should be discussed with Chryso Technical Team. The concrete's plastic-state consistency and cohesiveness should be checked before deciding on suitability for use.