

Chryso® Adva 151

High Range Water Reducing Admixture

DESCRIPTION

Chryso® Adva 151 is a high-performance liquid superplasticiser developed for a wide range of ready-mixed concrete applications where high strength, high consistence, and durability are required. Its advanced formulation enhances concrete cohesion and is particularly suitable for mixes incorporating manufactured sands.

Based on next-generation modified synthetic carboxylated polymers, Chryso® Adva 151 delivers the benefits of modern concrete admixture technology while ensuring consistent and reliable performance. The product is manufactured under controlled conditions and conforms to **EN 934-2**.

BENEFITS

- Produces high-consistence concrete with excellent rheology
- Efficient water reduction of **10–30%**, depending on mix design
- Enables flowing concrete using S2 consistence and/or low water/cement ratios
- Minimal impact on setting time at nominal dosages
- Improves concrete cohesion
- Suitable for concrete containing fly ash, GGBS, or silica fume
- High water reduction contributes to increased compressive strength, impermeability, and durability

FIELDS OF APPLICATION

Chryso® Adva 151 is suitable for:

- General purpose ready-mix concrete
- High-consistence flowing concrete
- Concrete requiring improved cohesion and durability

The product is compatible with most Portland cements and is effective in concretes incorporating fly ash or ground granulated blastfurnace slag (GGBS). For use with special cements, consult Chryso Technical Services.

Chryso® Adva 151 must not be premixed with other admixtures.

- All admixtures should be added separately into the concrete mix
- The presence of other chemical admixtures may affect performance

Consult Chryso Technical Services when using combined admixture systems.

INDICATIVE INFORMATION

Product Nature	Liquid
Color	Brown
Lifetime	12 months
Equivalent Content Na ₂ O	≤ 1,50 %
Specific gravity	1,085
Air Entrainment	Approx. 1.0-2.0%

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 **0.40 – 0.60%** by weight of cement is recommended. Optimum dosage depends on mix design, materials, and required performance.

Chryso® Adva 151 is supplied ready for use.

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

Automatic dispensing equipment is preferred to ensure accurate and consistent dosing.

PRECAUTIONS

- Protect from frost.
- Protect from heat.
- Store in a dry place, away from light and any source of heat.

SAFETY

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

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PACKAGING

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

ADDITIONAL INFORMATION

The effects of overdosing depend on the degree of overdose.

- Increased consistence may occur and, at high levels, segregation may be induced
- Setting times may be extended, particularly in low temperatures or when using sulphate-resisting cements or cement replacement materials

If overdosing is suspected, the concrete should be carefully assessed in its plastic state, with particular attention to consistency and cohesiveness before determining suitability for use.