

Chryso® Adva XR 3021

High range water reducing Super plasticizing admixture

DESCRIPTION

Chryso® Adva XR 3021 is a high-performance superplasticiser developed for ready-mixed concrete applications where extended consistence retention is required in addition to high water reduction. It is suitable for a wide range of concrete applications and is particularly beneficial where difficult or inaccessible pours are undertaken.

Based on next-generation modified synthetic carboxylated polymers, Chryso® Adva XR 3021 improves concrete cohesion while delivering the advantages of advanced admixture technology. The product is manufactured under controlled conditions and conforms to **EN 934-2**.

BENEFITS

- Produces high-consistence concrete with excellent rheology
- Enhanced consistence retention for extended workability
- Flexible dosage allowing water reductions typically between **10–30%**
- Minimal impact on setting time at recommended dosages
- Improves concrete cohesion, particularly for complex pours
- Suitable for use with fly ash, GGBS, and silica fume
- High water reduction leads to improved compressive strength, impermeability, and durability
- Dose-efficient performance

FIELDS OF APPLICATION

Chryso® Adva XR 3021 is suitable for:

- Ready-mix concrete
- High-consistence and flowing concrete
- Concrete placed in difficult or inaccessible locations

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

Chryso® Adva XR 3021 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 for combined admixture systems.

INDICATIVE INFORMATION

Product Nature	Liquid
Color	Yellow-Amber
Lifetime	12 months
Cl ⁻ ions content	< 0,100 %

METHOD OF USE

Dosage :

Typical dosage range:

- **400 – 1,200 ml per 100 kg of cement**
- Equivalent to **0.40 – 1.20%** by weight of cement

As a guide for initial trials, an addition rate of **0.50 – 0.70%** by weight of cement is recommended. The optimum dosage depends on mix design, materials, and site conditions.

Chryso® Adva XR 3021 is supplied ready for use.

- Add the admixture with part of the batching water after the addition of cement
- After addition, a further mixing cycle of **approximately two minutes** is recommended to ensure effective 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

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

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. Appropriate personal protective equipment should be worn.

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	1,055
Air Entrainment	1.0%

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 segregation may be induced at high dosage levels
- Extended setting times may occur, particularly in cold conditions or when using sulphate-resisting cements or cement replacement materials

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