

Chryso® AdvaCast 571

High range water reducing Super plasticizing admixture

DESCRIPTION

Chryso® AdvaCast 571 is a high-performance superplasticiser developed for precast concrete applications where **extended consistence retention** is required in addition to high-range water reduction. It is suitable for a wide range of precast elements and is particularly beneficial where improved cohesion and reliable placement are required for difficult or inaccessible pours.

Based on next-generation modified synthetic carboxylated polymer technology, Chryso® AdvaCast 571 enhances cement dispersion and rheological control, delivering consistent fresh and hardened concrete performance. The product is manufactured under controlled conditions and conforms to **EN 934-2**.

BENEFITS

- Delivers high-range water reduction
- Provides excellent consistence (slump) retention
- Produces high-consistence concrete with improved rheology
- Enhances concrete cohesion, reducing segregation risk
- Supports extended consistence life, including with challenging cements
- Minimal impact on setting time
- Improves compressive strength, impermeability, and durability
- Flexible, dose-efficient performance

FIELDS OF APPLICATION

Chryso® AdvaCast 571 is suitable for:

- Precast concrete manufacture
- High-consistence and flowing precast concretes
- Applications requiring extended workability retention
- Concretes placed in congested reinforcement or difficult-access areas

Chryso® AdvaCast 571 must not be premixed with other admixtures.

- Each admixture must be added separately into the concrete mix
- Performance may be affected by the presence of other chemical admixtures

The product is compatible with most Portland cements and is effective in concretes containing fly ash, GGBS, or silica fume.

For use with special cements, or combined admixture systems consult Chryso Technical Services.

INDICATIVE INFORMATION

Product Nature	Liquid
Color	Dark yellow to amber
Lifetime	12 months
Cl ⁻ ions content	≤ 0,100 %
Equivalent Content Na ₂ O	≤ 1,50 %

METHOD OF USE

Dosage :

Typical dosage range:

- 400 – 900 ml per 100 kg of cement**
- Equivalent to **0.40 – 0.90%** by weight of cement

As a guide for initial trials, an addition rate of **0.50 – 0.70%** by weight of cement is recommended. Optimum dosage should be confirmed through trials using actual materials and production conditions.

Chryso® AdvaCast 571 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 **approximately 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 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. 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.

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Specific gravity	1,080
Air Entrainment	1.0%

PACKAGING

- 15L Container
- Drum 205L
- 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
- Extended setting times may occur, particularly in cold conditions or when using sulphate-resisting cements or cement replacement materials

Where overdosing is suspected, the concrete should be assessed in its plastic state, with particular attention to consistency and cohesiveness before use.