

Chryso® AdvaFlow 349

High Range Water Reducing Admixture

DESCRIPTION

Chryso®AdvaFlow 349 is a high-performance, high-efficiency superplasticiser developed to impart extremely high consistence and enable the production of self-compacting concrete. Based on next-generation modified synthetic carboxylated polymers, it allows concrete to flow and compact under its own weight while maintaining stability and performance.

Manufactured under controlled conditions to ensure consistent quality, Chryso®AdvaFlow 349 delivers the benefits of advanced concrete admixture technology across demanding applications. The product conforms to **EN 934-2** and supports improved strength, durability, and placement characteristics when used within recommended dosage ranges.

BENEFITS

- Enables production of high-flow and self-compacting concrete without excessive admixture dosage
- Provides excellent flowability and filling ability without blocking or segregation
- Enhances pumpability and workability
- Allows high water reduction, contributing to increased compressive strength, impermeability, and durability
- Neutral effect on setting time under standard conditions
- Particularly suitable for precast concrete applications requiring high early strength

FIELDS OF APPLICATION

Chryso®AdvaFlow 349 is suitable for use in:

- Self-compacting concrete (SCC)
- High-flow concrete
- Ready-mix and precast concrete applications

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®AdvaFlow 349 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

For combined admixture systems, consultation with Chryso Technical Services is recommended

INDICATIVE INFORMATION

Product Nature	Liquid
Color	Yellow-Amber
Lifetime	12 months
Equivalent Content Na ₂ O	≤ 0,50 %

METHOD OF USE

Dosage :

Typical dosage range:

- 300 – 1,000 ml per 100 kg of cement
- Equivalent to 0.30 – 1.00% by weight of cement

As a guide for initial trials, an addition rate of 0.60 – 0.80% by weight of cement is recommended. Optimum dosage will depend on mix design, materials used, and required performance.

Chryso®AdvaFlow 349 is supplied ready for use.

- The admixture should be added with part of the batching water after the addition of cement.
- Following addition, a further mixing cycle of approximately two minutes is recommended to ensure full dispersion of the mix constituents.

Automatic dispensing systems are preferred to ensure accurate and consistent dosing.

SAFETY

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	Approx. 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, at high levels, segregation may be induced
- 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 carefully assessed in its plastic state, with particular attention paid to consistency and cohesiveness before determining suitability for use.