

Chryso® Daracem SP1

Set accelerating admixture
Chloride-free

DESCRIPTION

Chryso® Daracem SP1 is a high-efficiency superplasticising admixture developed to achieve extremely high water reduction and accelerated early-age strength development. It is particularly suitable for precast concrete manufacture where rapid strength gain and high productivity are required.

Based on a soluble salt of polymeric naphthalene sulphonate, Chryso® Daracem SP1 acts as a powerful deflocculating agent, dispersing cement particles to dramatically increase concrete flow. This enables the production of highly workable concrete with little or no vibration, even for large or difficult pours. The product is manufactured under controlled conditions and conforms to **EN 934-2**.

BENEFITS

- Extremely high water reduction capability
- Accelerated early and subsequent strength development
- Enables very high consistence and flowability
- Suitable for large or difficult pours with minimal vibration
- Especially effective for precast production
- Reliable performance across a wide ambient temperature range
- Can reduce stripping times in cold weather conditions

FIELDS OF APPLICATION

Chryso® Daracem SP1 is suitable for:

- Precast concrete manufacture
- High-performance concrete
- Concrete requiring high early strength
- Large or congested pours

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

Chryso® Daracem SP1 must not be premixed with other admixtures.

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

Consult Chryso Technical Services for combined admixture systems.

INDICATIVE INFORMATION

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

METHOD OF USE

Dosage :

Typical dosage range:

- **500 – 2,000 ml per 100 kg of cement**
- Equivalent to **0.50 – 2.00%** by weight of cement

As a guide for initial trials, an addition rate of **1.00%** by weight of cement is recommended. Optimum dosage should be determined through laboratory or production trials using actual materials.

Chryso® Daracem SP1 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 full 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

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.

TECHNICAL DATA SHEET

Chryso® Daracem SP1

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Chryso
Concrete
Solutions

24/06/2026

Specific gravity	1,195
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, particularly in low-slump concretes
- Possible increase in setting time, especially in cold conditions or with sulphate-resisting cements

Where overdosing is suspected, the concrete should be assessed in its plastic state, focusing on consistency and cohesiveness before use.

The information contained in this document is given to the best of our knowledge and is the result of extensive and controlled testing. However, it cannot under any circumstances be considered as a warranty involving our liability in the case of misuse. Tests should be conducted before the product is used to ensure that the methods and conditions of use of the product are satisfactory. Our specialists remain at the disposal of customers if they require help with the application of the product for their specific needs.

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