

## Chryso® Daraset 580C

Set accelerating admixture  
Chloride-free

### DESCRIPTION

Chryso® Daraset 580C is a non-chloride, non-corrosive set-accelerating admixture designed to shorten concrete setting times and significantly increase early-age compressive strength. It accelerates cement hydration and binder gel formation, particularly benefiting concrete placed in cold weather conditions.

Chryso® Daraset 580C contains no calcium chloride and is non-corrosive to reinforcing steel, metal decks, and admixture storage or dispensing systems. The product is manufactured under controlled conditions to ensure consistent quality and conforms to **EN 934-2**.

### BENEFITS

- Accelerates setting time and early strength development
- Improves early-age performance in very cold conditions
- Reduces protection time against freezing at temperatures as low as **-7°C**
- Speeds finishing operations and form removal
- Provides acceleration similar to calcium chloride without corrosion risk
- Suitable where corrosion of embedded or stressed steel must be avoided
- Ideal for concrete placed on steel-clad or zinc-coated metal decks
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### FIELDS OF APPLICATION

Chryso® Daraset 580C is suitable for:

- Cold-weather concreting
  - Concrete requiring rapid setting and early strength gain
  - Applications where chloride-containing accelerators cannot be used
  - Construction involving reinforced or metal-decked concrete
- Chryso® Daraset 580C is compatible with Chryso admixtures commonly used in concrete production.
- Each admixture must be added separately
  - The presence of other chemical admixtures may affect performance

Consult **Chryso Technical Services** when using combined admixture systems or special cements.

### 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 must be confirmed through laboratory or production trials.

Chryso® Daraset 580C is supplied ready for use.

- May be added on the sand, into the mixing water, or at the end of the batching cycle
- Automatic dispensing equipment is recommended
- Do not allow contact with other admixtures prior to entering the concrete

As Chryso® Daraset 580C may be used at high dosages, the effective water contribution should be taken into account:

- **1 litre weighs approximately 1.40 kg**
- Contributes **approximately 0.77 kg of water per litre** to the mix

### 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](http://www.uk.chryso.com).

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### INDICATIVE INFORMATION

|                                      |             |
|--------------------------------------|-------------|
| Product Nature                       | Liquid      |
| Color                                | Pale yellow |
| Lifetime                             | 12 months   |
| Cl <sup>-</sup> ions content         | ≤ 0,100 %   |
| Equivalent Content Na <sub>2</sub> O | < 0,10 %    |
| Specific gravity                     | 1,420       |
| Freezing Point                       | -23 °C      |

### PACKAGING

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

### ADDITIONAL INFORMATION

The effects of overdosing depend on the degree of overdose.

- Increased rate of setting
- Potential reduction in ultimate compressive strength

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