

Chryso® Eclipse Floor Shrinkage Reducer

DESCRIPTION

Chryso®Eclipse Floor is a liquid shrinkage-reducing admixture designed for use in **indoor slab-on-grade concrete construction**. It reduces drying shrinkage and associated curling, enabling improved floor performance and extended joint spacing.

The product acts chemically to reduce the internal forces that cause shrinkage, without relying on expansive materials. It is particularly suited to applications where control of cracking, flatness, and long-term durability is critical.

BENEFITS

- Significantly reduces drying shrinkage
- Minimises curling and cracking in floor slabs
- Allows increased joint spacing (up to approx. 15m depending on mix)
- Improves floor flatness and long-term durability
- Supports low-maintenance floor construction
- Extends workability with minimal set retardation

Typical performance:

- Up to **80% reduction in shrinkage at 28 days**
- Up to **50% reduction at 1 year or beyond**

FIELDS OF APPLICATION

Chryso®Eclipse Floor is suitable for:

- Indoor slab-on-grade concrete
- Industrial and commercial floors
- Concrete where shrinkage control is critical
- Applications not requiring air-entrained concrete

Chryso®Eclipse Floor is compatible with:

- Water reducers
- Superplasticisers
- Set retarders and accelerators
- Silica fume admixtures
- Corrosion inhibitors

Each admixture must be added separately.

Note:

- The product acts as a **strong air detrainer** and is **not suitable for air-entrained concrete**
- Slight set retardation (typically <1 hour) may occur and may increase when used with other retarders

INDICATIVE INFORMATION

Product Nature	Liquid
Color	Clear
Lifetime	12 months
Specific gravity	1,000

METHOD OF USE

Dosage :

Typical dosage range:

- 2.5 – 7.5 L per m³ of concrete**
- Dosages as low as **1 L/m³** may be used in some cases

As a guideline:

- Optimum dosage is typically **2.5–5% of mix water by weight**

Trial mixes should be carried out to determine the optimum dosage for performance.

- May be added at any stage of the batching cycle
- Must not be mixed with other admixtures prior to addition
- Should be incorporated to ensure uniform distribution within the mix

Mix adjustment:

- Chryso®Eclipse Floor does not contain water but contributes liquid volume
- It is recommended to **replace an equivalent volume of mixing water**

SAFETY

For health, safety, and environmental information, refer to the relevant **Safety Data Sheet (SDS)**.

For further information, please refer to the safety data sheet on our internet site www.uk.chryso.com.

Chryso® Eclipse Floor

Shrinkage Reducer

Flash Point

> 100 °C

PACKAGING

- Drum 205L
- 1045L IBC

ADDITIONAL INFORMATION

Effect on Concrete Properties

Fresh Concrete

- Minimal effect on workability when replacing equivalent water volume
- Slight retardation of set
- Difficult to entrain air

Hardened Concrete

- Significant reduction in drying shrinkage
- Possible reduction in compressive strength (approx. **10–15%**)
- Strength loss may be offset by water reduction using superplasticisers