

Chryso® Mira 53

Mid-Range Water Reducing Admixture

DESCRIPTION

Chryso®Mira 53 is a new-generation mid-range water-reducing admixture developed to improve concrete performance and production economics. It provides enhanced later-age strength development, supporting cement optimisation across a wide range of concrete mixes.

Formulated using blended modified lignosulphonates, Chryso®Mira 53 provides strong deflocculating action, effective particle dispersion, and reliable water reduction. It also improves consistence retention and concrete cohesion, supporting stable workability and mix performance.

BENEFITS

- Enhances ultimate compressive strength
- Improves later-age strength development
- Supports cement optimisation and improved mix economics
- Provides excellent consistence retention
- Produces plasticised and high-consistence concrete at increased dosages
- Provides predictable retardation characteristics
- Improves concrete cohesion and mix stability
- Delivers effective particle dispersion and water reduction
- Suitable for a wide range of concrete mixes
- Compatible with fly ash and GGBS concretes

FIELDS OF APPLICATION

- Ready-mix concrete
- General concrete applications
- Plasticised and high-consistence concrete
- Concrete produced using Portland cement
- Concrete containing fly ash
- Concrete containing ground granulated blastfurnace slag (GGBS)

Suitable for use with:

- Portland cement
- Fly ash concrete
- Ground granulated blastfurnace slag concrete
- Admixtures normally used in concrete production.
 - Each admixture must be added separately
 - The presence of multiple admixtures or other chemicals may affect overall performance
 - Combined admixture systems should be assessed through trials before use

For use with special cements, consultation with Chryso Technical Services is recommended.

INDICATIVE INFORMATION

METHOD OF USE

Dosage :

Typical dosage range:

- **400-800 ml per 100 kg of cement**
 - Equivalent to **0.40-0.80%** by weight of cement
- As a guide for initial trials, a dosage of **0.50% by weight of cement** is recommended. Chryso Technical Services should be consulted for trial support and dosage optimisation.

Chryso®Mira 53 is supplied ready for use.

- Add with part of the batching water after the cement has been introduced
- Allow a minimum additional mixing time of **2 minutes**
- Automatic dispensing equipment is recommended for accurate and consistent dosing
- The optimum dosage should be established through concrete trials using actual materials and production conditions

PRECAUTIONS

- Avoid extremes of temperature; protect from frost.
- If frozen, thaw and remix thoroughly.
- Avoid direct sunlight; store in shaded conditions.
- General PPE: avoid skin/eye contact.

NORMATIVE AND REGULATORY INFORMATION

Chryso®Mira 53 conforms to IS EN 934-2.

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.

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Mid-Range Water Reducing Admixture

Product Nature	Liquid
Color	Dark brown
Lifetime	12 months
Cl ⁻ Ions content	≤ 0,100 %
Equivalent Content Na ₂ O	3,70 %
Specific gravity	1,210
Air Entrainment	1.0-2.0%

PACKAGING

- Container of 1000L
- Bulk delivery on request
- 20L Container
- 215 L Barrel

ADDITIONAL INFORMATION

- Increasing the dosage within the recommended range will increase concrete consistence and retardation of set. These effects may become more pronounced when cement replacement materials are used.
- Overdosing, particularly in cold weather, may cause additional retardation. However, properly cured concrete will generally achieve a higher ultimate strength than normally dosed concrete. If overdosing is suspected, assess the consistency and cohesiveness of the concrete in its plastic state before determining its suitability for use.