TECHNICAL DATA SHEET

Chryso Concrete Solutions

09/10/2026

MIRA® VL 12

Mid-Range Water Reducing Admixture

DESCRIPTION

MIRA® VL 12 is an aqueous solution of complex polycarboxylate compounds which contribute uniquely to concrete's final properties of strength and durability. Concrete made with MIRA® VL 12 displays significant advantages compared to concrete using traditional admixtures. MIRA® VL 12 uses latest innovation in polymer technology to produce minimal slump loss. MIRA® VL 12 is a Mid-range Water-Reducing admixture (MWR) designed to improve concrete quality by providing extended slump life (slump retention) for critical pre-mixed and precast applications. Ideal for use in mid-strength concrete grades (25 to 50 MPa), where extended concrete workability is required for critical placement requiring slump life of 120 - 240 minutes. MIRA® VL 12 is part of the revolutionary MIRA® V series of admixtures from Chryso that combines the benefits of placement flexibility and durability in the performance of concrete.
MIRA® VL 12 complies with AS 1478.1-2000, type MWR.

BENEFITS

- Long slump life at normal set
- No additional retardation
- Superior strength performance
- Reduced placement effort
- Superior pumpability
- High workability
- Controlled set times
- Overall improved quality of concrete
- Minimum slump loss, better overall cohesiveness, provides less "sticky" concrete for improved placement of concrete

APPLICATION

- Precast concrete
- Concrete containing fibres
- Premix applications
- Mixes containing SCM (Supplementary Cementitious Materials)
- Pumped concrete and concrete used in tight locations
- Concrete where less manpower is available for placement

INDICATIVE INFORMATION

Product Nature	Liquid
Color	Green
Lifetime	12 months
Specific gravity (kg)	1,045 ± 0,015
pH	5,00 ± 0,50

PACKAGING

- Bulk
- IBC 1000L
- 205 L Drum
- Pail

SAFETY

METHOD OF USE

Dosage :
Dosage rates of MIRA® VL 12 is typically 400 to 600 ml / 100 kg cementitious material. MIRA® VL 12 is effective through a wide range of dose rates to provide control in concrete placement and finishing times. Higher dose rates can be selected depending on the mix components and job conditions. At lower dose rates, MIRA® VL 12 will be affective as a Type WR water reducer.
Please consult with your local Chryso representative.

Equipment :
Please contact your local Chryso representative for further information regarding the dispensing equipment for this product.

COMPATIBILITY

- Air-entraining admixture such as Chryso®Air
- Water reducers such as Chryso®WRDA
- High range water reducers such as Chryso®Adva
- When using admixtures in combination, each admixture should be added separately to the mix
- Recommended to undertake that pre-construction trials for air content

PRECAUTIONS

MIRA® VL 12 contains no flammable ingredients and is a non-hazardous chemical. It will freeze at 0°C but will return to full strength after thawing and thorough mechanical agitation.

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 con ducted 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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Prior to any use, please read carefully the Safety Data Sheet (SDS).

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