

V-MAR® 3

Concrete rheology-modifying admixture

DESCRIPTION

V-MAR® 3 is a high efficiency liquid admixture designed to enable production of Self-Consolidating Concrete (SCC) by modifying the rheology of concrete. V-MAR® 3 works by increasing the viscosity of the concrete while still allowing the concrete to flow without segregation.

V-MAR® 3 is based on a unique biopolymer and is manufactured under closely controlled conditions to provide uniform and predictable performance. V-MAR® 3 contains no intentionally added chlorides and no TEA. V-MAR® 3 complies with AS 1478, Type SN.

BENEFITS

SCC production:

- Self-placement; removes vibration, changes shape under its weight and self consolidates within form work
- Supports no blocking, during passage through narrow openings and congested reinforcement

For precast and prestressed concrete:

- Reduced labour and improved productivity with easy concrete placement
- Highest quality surface finish, no need for surface touch ups
- Improved labour safety and work environment with reduction in plant noise levels
- Reduces wear and tear on forms with no vibration
- Achieves complete consolidation throughout concrete elements in thin and highly reinforced units
- Increased production flexibility in conventional concrete mixes

APPLICATION

- Precast and prestressed concrete to produce SCC
- SCC manufacture and production with variations in aggregate gradations and moisture content

INDICATIVE INFORMATION

Product Nature	Liquid
Color	Milky white
Lifetime	12 months
Specific gravity (kg)	1,000 ± 0,100
pH	6,50 ± 0,50

PACKAGING

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

SAFETY

METHOD OF USE

Dosage :

V-MAR® 3 is typically used at a dosage rate of 500 to 3,000 ml / m³ of concrete. Dosage requirements are based on water content in the mix. As water content increases, the V-MAR® 3 requirement increases. V-MAR® 3 dosage requirements may also be affected by mix design, cementitious content, aggregate gradations and SCC application. ADVA®/ADVA® CAST series of superplasticisers are highly recommended for use in SCC production.

Dosage rate requirements for superplasticisers are typically slightly higher for SCC than for conventional concrete mixes. Pre-placement testing is recommended to determine the optimum admixture dosage rate. Please consult your local Chryso representative for assistance with developing mix designs, admixture combinations and SCC production.

Equipment :

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

COMPATIBILITY

- Water reducers such as Chryso®WRDA
- Mid-range water reducers such as Chryso®Mira
- Compatible with POLARSET® in SCC precast
- When using admixtures in combination, each admixture should be added separately to the mix

PRECAUTIONS

V-MAR® 3 will freeze at about -2°C but will return to full functionality after thawing and thorough mechanical agitation.

TECHNICAL DATA SHEET

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Chryso
Concrete
Solutions

03/02/2026

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

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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