

# V-MAR<sup>®</sup> 6

Rheology-modifying and mix-enhancing admixture

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## Product Description

V-MAR<sup>®</sup>6 is a rheology-modifying and mix-enhancing admixture that can be used in a variety of concrete mixes. V-MAR<sup>®</sup>6 is based on a high molecular weight polymer that is designed to improve cohesion, flow, lubricity and “softness” to concrete. V-MAR<sup>®</sup>6 complies to AS 1478.1 as a Type SN.

## Compatibility with Cements

V-MAR<sup>®</sup>6 can be used with all types of Portland Cements and it is effective in concretes containing pulverised fly ash and/or ground granulated blast furnace slag. For use with special cements we recommend that you consult your local GCP representative..

## Compatibility With Other Admixtures

V-MAR<sup>®</sup>6 should not be premixed with other admixtures. The performance of the material may be affected by the presence of other chemicals and we would recommend that GCP be consulted in such circumstances.

## Product Advantages

- Using suitable mix designs, self-compacting concrete (SCC) produced with V-MAR<sup>®</sup> 6 flows and consolidates around reinforcement without blocking or segregation.
- V-MAR<sup>®</sup> 6 is a workability/pumpability-enhancing admixture which reduces friction within a concrete mix, making placing, screeding, pumping and finishing much easier. V-MAR<sup>®</sup> 6 used in the correct mix can also assist in minimising bleed.
- Self-consolidating concrete SCC produced with V-MAR<sup>®</sup> 6 is especially suitable for large scale civil engineering application as it has neutral setting time and high early strength, allowing rapid progress to be achieved.
- V-MAR<sup>®</sup> 6 may also be considered in spray/shotcrete mixes to reduce or eliminate the amount of silica fume required.

## Method of Use

V-MAR<sup>®</sup>6 is supplied ready to use. When producing high workability concrete, V-MAR<sup>®</sup>6 should be added “up-front” with part of the batching water. An ADVA<sup>®</sup>Superplasticiser to be added after the V-MAR<sup>®</sup>6 has been discharged, i.e with the last 20–25% of batch water.

When used in “non-SCC type concretes” V-MAR<sup>®</sup>6 should be added “up-front” with the initial part of mix water followed by other admixtures.

## Addition Rates

For SCC type concretes and as a silica fume part replacement, dose range is 3 to 5L per m<sup>3</sup>. For “non-SCC” concretes V-MAR<sup>®</sup>6 can be used at 500 to 1,000mL / m<sup>3</sup>.

As with most products of this type, the magnitude of the effect obtained with V-MAR<sup>®</sup>6 is governed by the quantity of product used, water-cementitious ratio, and the specific nature of concrete and its constituent materials.

It is necessary therefore to assess performance under site conditions using site materials to determine optimum dosage and effect on both plastic and hardened concrete properties, such as cohesiveness, workability retention, set characteristics, early rate of strength gain, ultimate compressive strength and shrinkage when these are of consequence. For advice and assistance with your trials we would recommend that you consult your local GCP representative.

## Dispensing Equipment

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

## Packaging

V-MAR<sup>®</sup>6 is supplied in 205L drum and 1,000L tote-tanks.

V-MAR<sup>®</sup>6 should preferably be stored protected from frost. If the product does become frozen, it should be carefully mixed after thawing out to restore it to its normal state.

## Health and Safety

V-MAR<sup>®</sup>6 is formulated from chemicals which present no fire or health hazards. If, however, it is spilled, the floor will be made slippery and should be washed down immediately with cold water. For further information, see V-MAR<sup>®</sup>6 Material Safety Data Sheet, or consult GCP Applied Technologies.

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