

Rheology Modifying Admixtures for Concrete

V-MAR® admixtures enhance concrete rheology for diverse applications, improving segregation resistance in self-consolidating concrete (SCC), reducing washout in underwater placements, and optimizing zero slump extruded concrete. These products streamline the forming and placing of concrete by improving workability and finishability with harsh aggregates and manufactured sands. By enhancing the lubricity and flowability of the concrete mix, they result in smoother placement and a higher-quality surface finish..

V-MAR® 3: Thixotropic Improvement

PURPOSE:

- Acts as a thickener/viscosity modifier for SCC.
- Increases moisture tolerance and prevents aggregate segregation.

APPLICATION AREAS:

- Concrete Paving.
- Precast concrete.
- Prestressed concrete.
- Ready-mix concrete.

BENEFITS:

- Flexibility with suboptimal aggregate gradation and moisture content fluctuations.
- Improved workability and reduced segregation/bleed.
- Enhanced surface appearance.
- Easy to dispense liquid admixture with normal set times.
- Minimal impact on air entrainment.
- Mitigates plastic shrinkage and drying shrinkage cracks.
- Improves consistency in harsh conditions (e.g., high winds, low humidity).
- Reduces pump pressure and aids slipform paving.

V-MAR® F100: Improved Productivity

PURPOSE:

- Designed for zero slump and low slump applications.
- Adds lubricity to low water content concrete, enhancing surface quality and productivity.

APPLICATION AREAS:

- Concrete pipe.
- Concrete extrusion.
- Concrete paving.
- Slip-formed concrete.
- Roller-compacted concrete.
- Ready-mix concrete.

BENEFITS:

- Modifies concrete rheological properties for improved workability.
- Improved workability without stickiness.
- Produces concrete mixes that are cohesive.
- Facilitates concrete extrusion.
- Enhances surface appearance.
- Faster discharge rates.

Key Differentiators

- **V-MAR® 3:** Enhances cohesion, ideal for SCC and underwater concrete.
- **V-MAR® F100:** Improves lubricity, making it perfect for zero slump applications.

Both products enhance finishability and help concrete move efficiently..

V-MAR®: User Insights

- **Adaptation to Type 1L Cement:** Helps mitigate issues like plastic shrinkage and drying cracks, crucial for adapting to higher lime content in Type 1L cement.
- **Product Efficacy:** Proven to improve consistency and finishability, even in harsh conditions. It reduces pump pressure and aids in applications like slipform paving.
- **Environmental Considerations:** Supports sustainability goals by enhancing performance with Type 1L cement.