

Breakthrough Technology

MasterSure Z 60 is a workability-retaining admixture that provides flexible degrees of slump retention without retardation. Part of a new generation of polymers in Master Builders Solutions vast range of innovative concrete admixtures, MasterSure Z 60 admixture represents a new era of performance technology.

This first-of-its-kind solution works as a time-released dispersant that continuously supplies a special polymer to the surfaces of cement grains to keep them from agglomerating. The result is a concrete mixture that can remain consistent for an extended period of time – with slump retention of more than two hours for ready-mixed concrete and more than 45 minutes for precast concrete – saving time and money for producers.

Recommended uses:

- Concrete with varied slump requirements
- Concrete mixtures utilizing supplementary cementitious materials
- Concrete where high flowability, increased stability and enhanced durability are needed
- Production of self-consolidating concrete (SCC) mixtures

Common Ways to Address Slump Loss

	Key Considerations
Retemper Easy solution – contractors understand water addition.	<ul style="list-style-type: none"> • Impacts set time, air content, bleed rate, compressive strength and long-term durability • Increases mix costs due to overdesign • Higher operational costs due to jobsite retempering • Prohibited in some projects
Batch concrete at a higher initial slump Easy solution – included at batch plant.	<ul style="list-style-type: none"> • Requires thorough knowledge of slump loss over time and continuous monitoring and adjustments of the mix • Increases admixture material costs • Prohibited in some projects
High-range water-reducing admixture (HRWR) Common solution – redosing with HRWR will not negatively affect set time, bleed rate, compressive strength and long-term durability.	<ul style="list-style-type: none"> • Increases admixture material costs • Higher operational costs due to jobsite addition • Potential for increased air content and slump variability
Hydration-controlling or retarding admixture Easy solution – included at batch plant. Using a hydration-controlling or retarding admixture offers predictable results based on historical mix designs.	<ul style="list-style-type: none"> • Increases admixture material costs • Potential impact on set time • Lower early-age compressive strength development
Mechanical addition Automated process offers predictable slump at time of delivery, eliminating job-site retempering and re-testing, and saving operational costs.	<ul style="list-style-type: none"> • Significant costs to install and maintain • Increased mix costs due to overdesign when system retemper • Increased admixture material costs when system doses HRWR

MasterSure® Z 60 Admixtures

The cost-effective admixture to maintain concrete consistency.



About Master Builders Solutions

Master Builders Solutions is a leading global manufacturer of concrete admixtures, as well as other sustainable solutions for the construction industry, focussed on delivering its vision: **Inspiring people to build better.** Master Builders Solutions provides value-added technology and market-leading R&D capabilities to improve the performance of

construction materials and to enable the reduction of CO2 emissions in the production of concrete. Founded in 1909, Master Builders Solutions has ca. 1600 employees operating 35 production sites globally, supporting their customers in mastering their building challenges of today – for a decarbonised future.

“MasterSure Z 60 allows our finishers to take their time and get a better finish on the product.”

Bobby Rochester, Metromont Corp.

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MasterSure® Z 60 admixture from Master Builders Solutions delivers a more effective means of slump retention while helping concrete producers improve quality and save money.

Overview

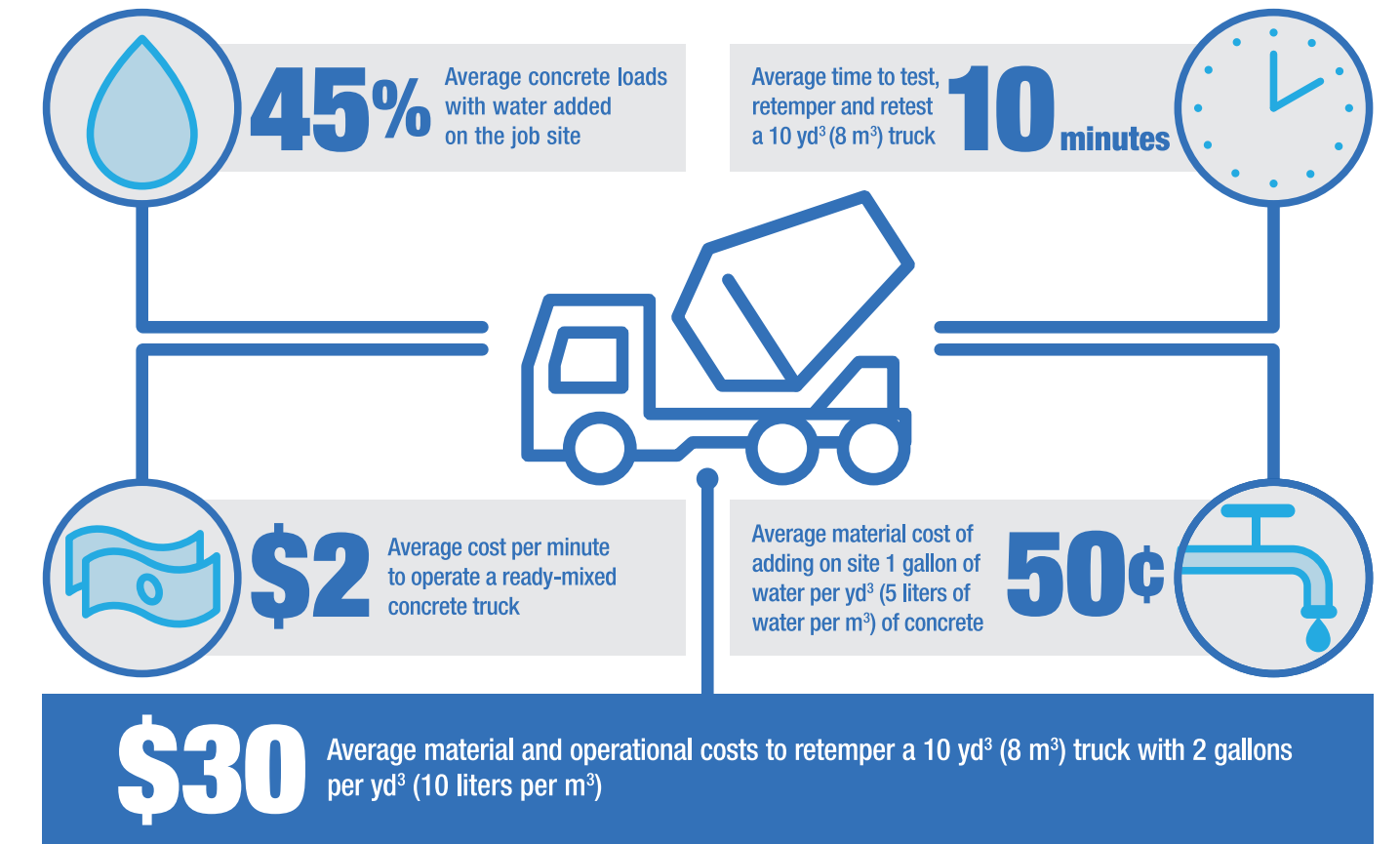
The goal of any concrete producer is simple – deliver consistent concrete on a consistent basis. Yet, maintaining workability in fresh concrete can be a major challenge for producers, given the fact that concrete properties begin to change immediately after batching. Traditional methods of managing the inevitable loss of workability over time generally have proven inexact and costly for both the producer and contractor’s bottom line.

Benefits of MasterSure Z 60 Admixture

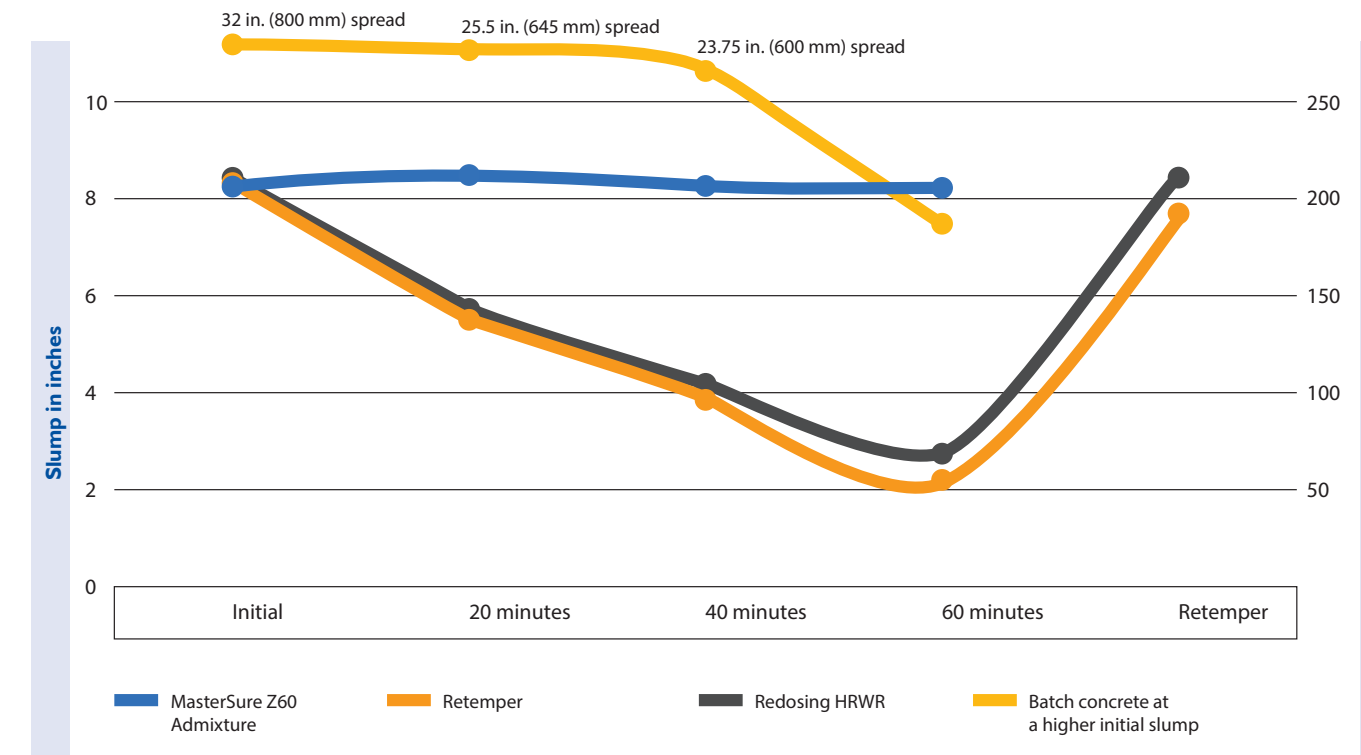
- Minimizes the need for jobsite slump adjustment using water or high-range water-reducing admixture
- Flexible degrees of slump and workability retention without retardation
- Load-to-load consistency in air-entrainment, slump, workability and strength
- Minimal to NO job site retempering and need for additional testing
- Fewer rejected loads and increased customer satisfaction/loyalty due to consistent quality of concrete
- Improved yield out of the truck and faster truck turnaround time
- Expanded concrete delivery range
- Excellent finishability for contractors
- Better color consistency for colored and normal concrete



The Potential Cost of Retempering



The MasterSure Z 60 Advantage



“MasterSure Z 60 allows us to ship farther while still maintaining workability.”

Tim Kindt, Pennsy Supply, Inc.



“Prior to using MasterSure Z 60, we were losing slump and experiencing variable air contents between the plant and the jobsite.”

Rene Silva,
ML Ready Mix Concrete

