

## Recommended dosages

	Formerly	Dosage
<b>High Range Water Reducers</b>		fl oz/cwt (mL/100 kg)
MasterGlenium 3030	<i>Glenium 3030</i>	3-18 (195-1170)
MasterGlenium 3400	<i>Glenium 3400</i>	2-12 (130-780)
MasterGlenium 7500	<i>Glenium 7500</i>	2-15 (130-980)
MasterGlenium 7511	<i>PS 1583</i>	3-15 (195-975)
MasterGlenium 7700	<i>Glenium 7700</i>	2-15 (130-980)
MasterGlenium 7710	<i>Glenium 7710</i>	2-15 (130-980)
MasterRheobuild 1000	<i>Rheobuild 1000</i>	10-25 (650-1630)

		Dosage
<b>Accelerators</b>		fl oz/cwt (mL/100 kg)
MasterSet AC 534	<i>Pozzolith NC534</i>	10-45 (650-2920)
MasterSet FP 20	<i>Pozzutec 20+</i>	5-60 (325-3910)
MasterSet AC 122	<i>Pozzolith 122HE</i>	16-64 (1040-4170)

		Dosage
<b>Retarders and Hydration Control Admixtures</b>		fl oz/cwt (mL/100 kg)
MasterSet Delvo	<i>Delvo Stabilizer</i>	Contact BASF
MasterSet R 100	<i>Pozzolith 100XR</i>	2-4 (130-260)
MasterSet R 300	<i>Pozzolith 300R</i>	3-5 (195-325)

		Dosage
<b>Air Entrainers and Foaming Agents</b>		fl oz/cwt (mL/100 kg)
MasterAir AE 400	<i>EverAir</i>	0.25-4 (16-260)
MasterAir AE 200	<i>Micro Air</i>	0.125-1.5 (8-100)
MasterAir AE 90	<i>MB-AE 90</i>	0.25-4 (16-260)
MasterAir VR 10	<i>MB-VR</i>	0.25-4 (16-260)
MasterCell 30	<i>Rheocell 30</i>	Contact BASF

	Formerly	Dosage
<b>Viscosity Modifying Admixtures</b>		fl oz/cwt (mL/100 kg)
MasterMatrix VMA 362	<i>Rheomac VMA 362</i>	2-14 (130-910)
MasterMatrix VMA 450	<i>Rheomac VMA 450</i>	0.5-4 (32-260)
<b>Workability Retaining Admixture</b>		fl oz/cwt (mL/100 kg)
MasterSure Z 60	<i>RheoTEC Z-60</i>	3-12 (195-780)

		Dosage
<b>Silica Fume and Corrosion Inhibitors</b>		
MasterLife SF 100	<i>Rheomac SF100</i>	5-15% by mass of cement
MasterLife CI 222	<i>Rheocrete 222+</i>	1 gal/yd <sup>3</sup> (5.0 L/m <sup>3</sup> )
MasterLife CI 30	<i>Rheocrete CNI</i>	1-6 gal/yd <sup>3</sup> (5-30 L/m <sup>3</sup> )

		Dosage
<b>Shrinkage and Crack Reducers</b>		gal/yd <sup>3</sup> (L/m <sup>3</sup> )
MasterLife SRA 20	<i>MasterLife SRA 20</i>	0.5-1.5 (2.5-7.5)
MasterLife CRA 007	<i>MasterLife CRA 007</i>	1-2 (5-10)

		Dosage
<b>Anti-Washout Admixture</b>		fl oz/cwt (mL/100 kg)
MasterMatrix UW 450	<i>Rheomac UW 450</i>	4-20 (260-1300)

		Dosage
<b>ASR Inhibitor</b>		
MasterLife ASR 30	<i>ASRx 30LN</i>	Contact BASF

		Dosage
<b>Rheology Controlling</b>		fl oz/cwt (mL/100 kg)
MasterMatrix 33	<i>Navitas 33</i>	2-12 (130-780)

		Dosage
<b>Liquid Coloring</b>		
MasterColor	<i>Rheocolor L</i>	Contact BASF

		Dosage
<b>Integral Waterproofing</b>		
MasterLife 300D	<i>Rheomac 300D</i>	2% by mass of cement



# Admixture Performance Guide

## For Improving Concrete



## Master Builders Solutions from BASF

The Master Builders Solutions brand brings all of BASF's expertise together to create chemical solutions for new construction, maintenance, repair and renovation of structures. Master Builders Solutions is built on the experience gained from more than a century in the construction industry.

The know-how and experience of a global community of BASF construction experts form the core of Master Builders Solutions. We combine the right elements from our portfolio to solve your specific construction challenges.

We collaborate across areas of expertise and regions and draw on the experience gained from countless construction projects worldwide. We leverage global BASF technologies, as well as our in-depth knowledge of local building needs, to develop innovations that help make you more successful and drive sustainable construction. The comprehensive portfolio under the Master Builders Solutions brand encompasses concrete admixtures, cement additives, chemical solutions for underground construction, waterproofing solutions, sealants, concrete repair and protection solutions, performance grouts, performance flooring solutions.

## Master Builders Solutions products from BASF for the Construction Industry:

**MasterAir®**  
Solutions for air-entrained concrete

**MasterBrace®**  
Solutions for concrete strengthening

**MasterCast®**  
Solutions for manufactured concrete products

**MasterCem®**  
Solutions for cement manufacture

**MasterEmaco®**  
Solutions for concrete repair

**MasterFiber®**  
Comprehensive solutions for fiber reinforced concrete

**MasterFinish®**  
Solutions for formwork treatment

**MasterFlow®**  
Solutions for precision grouting

**MasterGlenium®**  
Solutions for high-performance flowing concrete

**MasterInject®**  
Solutions for concrete injection

**MasterKure®**  
Solutions for concrete curing

**MasterLife®**  
Solutions for enhanced durability

**MasterMatrix®**  
Advanced rheology control solutions for self-consolidating concrete

**MasterPel®**  
Solutions for watertight concrete

**MasterPolyheed®**  
Solutions for moderate slump concrete with superior finishability

**MasterPozzolith®**  
Solutions for conventional slump concrete

**MasterProtect®**  
Solutions for concrete protection

**MasterRheobuild®**  
Solutions for high slump concrete

**MasterRoc®**  
Solutions for underground construction

**MasterSeal®**  
Solutions for waterproofing and sealing

**MasterSet®**  
Solutions for set control

**MasterSure®**  
Solutions for workability control

**MasterTop®**  
Solutions for industrial and commercial floors

**Ucrete®**  
Flooring solutions for harsh environments

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# Admixture Product Performance Guide for Improving Concrete\*

- Superior Performance
- Excellent Performance
- Better Performance
- Good Performance

*This guide shows the relative performance and properties of various admixture products in comparison to a reference mixture. Depending on the local concrete materials and mixture proportions used, the performance obtained may be different from the performance shown in this guide. Contact your local sales representative for additional information on the performance of Master Builders Solutions brand admixtures with concrete materials and mixture proportions in your area.*

\* BASF's admixture product names changed under the Master Builders Solutions brand, effective January 2014. Please view the dosage table on the inside panel of this brochure for a product name reference list.

## Plastic Concrete Properties

ASTM C 494/C 494M  
Classifications

- Water Reduction
- Workability
- Slump Retention
- Pumpability
- Finishability
- Temperature Control
- Setting Time

N= Normal setting A= Accelerated setting R= Retarded setting

## Hardened Concrete Properties

- Reduced Plastic Shrinkage Cracking
- Reduced Drying Shrinkage
- Resistance to Freezing and Thawing
- Reduced Permeability
- Corrosion Resistance
- Sulfate Resistance
- High Early Strength
- Alkali-Silica Reactivity Resistance
- Delays Time to Cracking
- Reduces Initial Crack Width

## Special Applications

- Low Temperature Concreting
- Underwater Concreting
- Washwater and Concrete Stabilization
- Flowable Fill (Regular CLSM)
- SCC (self-consolidating concrete)
- Viscosity Modification
- 4x4™ Concrete (Strength-on-Demand)
- Liquid Sand™
- Colored Concrete
- Waterproofing

