

03 30 00	Cast-in-Place Concrete
03 40 00	Precast Concrete
03 70 00	Mass Concrete

MasterRheobuild[®] II00

Admixture for the Production of Flowing Concrete

Description

MasterRheobuild II00 high-range water-reducing admixture, is designed to produce concrete with the workability needed to facilitate placement. Flowable concrete with high-early strength gain is readily attainable through the use of this admixture. MasterRheobuild II00 admixture meets ASTM C 494/C 494M requirements for Type A, water-reducing, and Type F, high-range water-reducing, admixtures.

Applications

Recommended for use in:

- High slump, flowing concrete
- Concrete where normal setting characteristics are desired
- Prestressed and precast concrete
- Ready-mixed concrete

Features

- Reduced water content for a given level of workability
- Workability improved at equal water content when compared to a non-treated, reference concrete
- Normal setting characteristics
- High-early strength

Benefits

- Faster concrete placement
- Superplasticizing effect for high-slump applications
- Rapid strength gain for energy savings and earlier stripping (for precast/prestressed concrete applications)
- Earlier structural use of concrete

Performance Characteristics

Rate of Hardening: Setting time of concrete is influenced by the chemical and physical composition of the basic ingredients of the concrete, temperature of the concrete and climatic conditions. Trial mixtures should be made with job materials to determine the dosage required for a specified setting time and a given strength requirement.

Strength: Concrete mixtures containing MasterRheobuild II00 admixture develop strength more rapidly than plain concrete mixtures of equal consistency.

Guidelines for Use

Dosage: MasterRheobuild II00 admixture has a recommended dosage range of 10-20 fl oz/cwt (650-1300 mL/100 kg) of cementitious materials, depending upon the application, the required strength, or the desired slump. At cooler temperatures, the dosage may have to be increased by 15-25%.

The above dosage applies for most concrete mixtures using typical concrete ingredients. Because of variations in job condition and concrete materials, dosages other than the recommended amounts may be required. In such cases, contact your local sales representative.

Product Notes

Corrosivity – Non-Chloride, Non-Corrosive: MasterRheobuild I 100 admixture will neither initiate nor promote corrosion of reinforcing steel embedded in concrete, prestressing steel or of galvanized steel floor and roof systems. Neither calcium chloride nor other chloride-based ingredients are used in the manufacture of MasterRheobuild I 100 admixture.

Compatibility: MasterRheobuild I 100 admixture should not be used with MasterMatrix® UW 450, MasterMatrix VMA 358, MasterMatrix VMA 450, MasterPolyheed® 100, MasterPolyheed 1020, MasterPolyheed 1025, MasterPolyheed 1720, MasterPolyheed 1725 and MasterGlenium®-based high-range water-reducing admixtures as erratic behaviors in slump, slump flow or pumpability may be experienced. When used in conjunction with other admixtures, each admixture must be dispensed separately into the mixture.

Storage and Handling

Storage Temperature: MasterRheobuild I 100 admixture should be stored above freezing temperatures. If MasterRheobuild I 100 admixture freezes, thaw at 40 °F (4 °C) or above and completely reconstitute by mild mechanical agitation. **Do not use pressurized air for agitation.**

Shelf Life: MasterRheobuild I 100 admixture has a minimum shelf life of 18 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your local sales representative regarding suitability for use and dosage recommendations if the shelf life of MasterRheobuild I 100 admixture has been exceeded.

Packaging

MasterRheobuild I 100 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

Related Documents

Safety Data Sheets: MasterRheobuild I 100 admixture

Additional Information

For suggested specification information on MasterRheobuild I 100 admixture or its use in developing concrete mixtures with special performance characteristics, your local sales representative.

Master Builders Solutions creates technologies for the construction industry inspiring people to build better. We are active in ~40 countries and operate 35 production sites with over 1,600 employees. We develop, produce, and market high-quality chemical admixtures, as well as adjacent core technologies, to master the challenges of today and support a decarbonized future. Our people are pivotal and pair leading technologies and a strong brand heritage to surpass our customers' expectations and drive continuous value creation.

Limited Warranty Notice

Master Builders Solutions Admixtures US, LLC ("Master Builders Solutions") warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. MASTER BUILDERS SOLUTIONS MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of Master Builders Solutions. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. MASTER BUILDERS SOLUTIONS WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on Master Builders Solutions' present knowledge and experience. However, Master Builders Solutions assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. Master Builders Solutions reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.