

MasterPolyheed[®] I 855

Mid-Range Water-Reducing Admixture

Description

MasterPolyheed I 855 is a mid-range water-reducing admixture formulated with next-generation polycarboxylate technology. By leveraging state-of-the-art molecular engineering, it enhances concrete performance and delivers significant value for both concrete producers and contractors.

MasterPolyheed I 855 admixture is designed to meet ASTM C 494/C 494M requirements for Type A, water-reducing, and Type F, high-range water-reducing admixtures.

Applications

Recommended for use in:

- All concrete applications where superior workability, pumpability and finishability qualities are desired, in particular, flatwork, pumped concrete and pervious concrete
- Concrete containing ordinary portland cement (OPC), portland limestone cement (PLC) (Type IL/GUL), manufactured sand, and harsh concrete mixtures

Features

- Reduced water content for a given level of workability
- Excellent performance across a wide concrete slump range
- Superior concrete workability, pumpability and finishability qualities
- Enhanced performance even in concrete mixtures containing portland-limestone cement (Type IL/GUL cement), manufactured sand and low amounts of cementitious materials

Benefits

- Reduced labor costs for concrete placement and finishing
- Lower in-place concrete costs
- Enhanced concrete durability
- Increased service life of concrete structures
- Consistent air level development in both air-entrained and non-air-entrained mixes
- Greater batch-to-batch consistency

Guidelines for Use

Dosage: MasterPolyheed 1855 admixture has a recommended dosage range of 2-12 fl oz/ cwt (130- 780 mL/100 kg) of cementitious materials. For most applications, dosages in the range of 4-8 fl oz/ cwt (260-520 mL/100 kg) will provide excellent mid-range water reducer performance. Because of variations in concrete materials, job site conditions and/or applications, dosages outside of this range may be required. In such cases, contact your local sales representative.

Mixing: MasterPolyheed 1855 admixture can be added with the initial batch water or as a delayed addition. However, optimum water reduction is generally obtained with a delayed addition.

Product Notes

Corrosivity – Non-Chloride, Non-Corrosive: MasterPolyheed 1855 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 MasterPolyheed 1855 admixture.

Compatibility: MasterPolyheed 1855 admixture is compatible with most admixtures used in the production of quality concrete, including normal, mid- and high-range water reducers, accelerators, retarders, extended-set control admixtures, air entrainers, corrosion inhibitors, and shrinkage reducers. **Do not use MasterPolyheed 1855 admixture with admixtures containing beta- naphthalene sulfonate without confirming suitability. Erratic behaviors in slump, workability retention and pumpability may be experienced.**

Storage and Handling

Storage Temperature: MasterPolyheed 1855 admixture must be stored at temperatures above 40 °F (5 °C). If MasterPolyheed 1855 admixture freezes, thaw and reconstitute by mechanical agitation. **Do not use pressurized air for agitation.**

Shelf Life: MasterPolyheed 1855 admixture has a minimum shelf life of 12 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 MasterPolyheed 1855 admixture has been exceeded.

Packaging

MasterPolyheed 1855 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

Related Documents

Safety Data Sheets: MasterPolyheed 1855 admixture

Additional Information

For additional information on MasterPolyheed 1855 admixture or on its use in developing concrete mixtures with special performance characteristics, contact your Master Builders Solutions 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.

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