

MasterSet® AC 122

Accelerating Admixture

Formerly Pozzolith 122 HE*

Description

MasterSet AC 122 ready-to-use, liquid admixture is designed to make more uniform and predictable quality concrete while accelerating setting time and strength development.

MasterSet AC 122 admixture meets ASTM C 494/C 494M requirements for Type C, accelerating, and Type E, water-reducing and accelerating, admixtures.

Applications

Recommended for use in:

- Fast-track concrete construction
- Non-reinforced concrete
- Lightweight concrete
- 4x4™ Concrete
- Pervious concrete
- Self-consolidating concrete (SCC)

Features

- Increased early and ultimate strengths – compressive and flexural
- Reduced water content required for a given workability
- Accelerated setting time characteristics

Benefits

- Improved workability
- Superior finishing characteristics for flatwork and cast surfaces
- Earlier finishing of slabs – reduced labor costs
- Reduced protection time in cold weather
- Earlier stripping and reuse of forms
- Earlier structural use of concrete, as in lift-slab, tilt-up, paving and floors
- Easy to disperse in concrete mixtures, avoiding many of the problems associated with flake calcium

Performance Characteristics

Strength: Concrete containing MasterSet AC 122 admixture develops higher early and higher ultimate strengths than plain concrete. It meets the strength requirements of ASTM C 494/C 494M, AASHTO M 194 and CRD-C 87 specifications for admixtures.

MasterSet AC 122 admixture also increases concrete strength when used with Type III cement and with mixtures designed to use calcium chloride or other MasterSet admixture formulations.

Guidelines for Use

Dosage: This admixture is used within the range of 16-64 fl oz/cwt (1-4 L/100 kg) of cement for most concrete mixtures using average concrete ingredients. Because of variations in job conditions and concrete materials, dosage rates other than the recommended amounts may be required. In such cases, contact your local sales representative.

As the dosage of MasterSet AC 122 admixture increases up to 64 fl oz/cwt (4 L/100 kg) of cement, acceleration of setting time usually continues to increase. The larger dosage also increases early and ultimate strengths.

Product Notes

Corrosivity: This product contains intentionally-added calcium chloride. The admixture, due to chlorides originating from all the ingredients used in its manufacture, contributes less than 0.0210% chloride ions by weight of the cement when used at the rate of 1 fl oz/cwt (65 mL/100 kg) of cement.

Compatibility: MasterSet AC 122 admixture may be used in combination with any BASF admixture. When used in conjunction with other admixtures, each admixture must be dispensed separately into the mixture.

Storage and Handling

Storage Temperature: MasterSet AC 122 admixture should be stored above freezing temperatures. If MasterSet AC 122 admixture freezes, thaw at 35 °F (2 °C) or above and completely reconstitute by mild mechanical agitation. **Do not use pressurized air for agitation.**

Shelf Life: MasterSet AC 122 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 representative regarding suitability for use and dosage recommendations if the shelf life of MasterSet AC 122 admixture has been exceeded.

Packaging

MasterSet AC 122 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

Related Documents

Safety Data Sheets: MasterSet AC 122 admixture

Additional Information

For additional information on MasterSet AC 122 admixture or its use in developing a concrete mixture with special performance characteristics, contact your local sales representative.

The Admixture Systems business of BASF's Construction Chemicals division is the leading provider of solutions that improve placement, pumping, finishing, appearance and performance characteristics of specialty concrete used in the ready-mixed, precast, manufactured concrete products, underground construction and paving markets. For over 100 years we have offered reliable products and innovative technologies, and through the Master Builders Solutions brand, we are connected globally with experts from many fields to provide sustainable solutions for the construction industry.

* Pozzolith 122 HE became MasterSet AC 122 under the Master Builders Solutions brand, effective January 1, 2014.

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