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4	03 30 00	Cast-in-Place Concrete
	03 40 00	Precast Concrete
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	32 32 23	Segmental Retaining Walls
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MasterCast® I 000

New Generation Dispersant Admixture for Dry Cast

Description

MasterCast I 000 dispersing admixture is based on a unique, patented chemistry specially formulated to enhance the production efficiency and aesthetic appeal of manufactured concrete products, especially those made with manufactured sand or other harsh materials. As compared to traditional dry cast chemistries, MasterCast I 000 admixture additionally disperses cement, pozzolans, and integral pigments, further reduces compaction/extrusion resistance, and improves both material feed and distribution. This results in increased compressive and flexural strengths, faster production rates, and improved surface finish characteristics.

Applications

Recommended for use in:

- Concrete blocks
- Pavers and patio slabs
- Segmental retaining walls
- Hollow core slabs
- Concrete pipes
- Concrete roof tiles

Features

- Allows for increased use of manufactured sands
- Flexible dosage range
- Excellent mix flowability and extrusion properties
- Optimized dispersing and lubricating mechanisms
- Reduces stickiness in problematic mix designs
- Unique dispersant technology that fully exploits cementitious potentials yielding higher early- and ultimate-strengths

Benefits

- Increases production rates
- Increases compressive and flexural strengths
- Improves color and texture uniformity
- Reduces breakage, culls, and surface defects
- Extends mold life and reduces machine wear
- Assists material fill of large format machinery and constricted mold designs
- Increases mix moisture tolerance and produces consistent results at higher w/c

Material Properties

pH	5.60
Specific Gravity	1.03
Viscosity	11.6 cP
Appearance	Brown aqueous solution



Guidelines for Use

Dosage: 2 to 12 fl oz/cwt (130 to 780 mL/100 kg) of total cementitious materials. Please consult with your local sales representative if dosages outside the recommended range are being considered.

Mixing: For maximum efficiency, add MasterCast 1000 admixture early in the sequencing procedure. Best results typically occur by adding the MasterCast 1000 admixture during the pre wet process (with at least 70-80% of the required mix water), before adding the cementitious materials. Allow a minimum of 90 seconds of additional mixing time after all components have been dispensed.

Storage and Handling

Storage Temperature: MasterCast 1000 admixture must be stored at temperatures above 40 °F (4 °C) and below 105 °F (42 °C). If MasterCast 1000 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: MasterCast 1000 admixture has a shelf life of one year. 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 has been exceeded.

Packaging

MasterCast 1000 admixture is available in 55 gal (208 L) drums, 275 gallon (1041 L) totes and by bulk delivery.

Related Documents

Safety Data Sheets: MasterCast 1000 admixture

Additional Information

For additional information on MasterCast 1000 admixture or its use in developing a concrete mixture with special performance characteristics, contact 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

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