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MasterCell[®] 25

Admixture for Controlled Low Strength Materials (CLSM)

Formerly Rheocell Rheofill*

Description

MasterCell 25 admixture is a ready-to-use, selfcontained product for use in various flowable fill applications where reduced densities (unit weights) and air contents of up to 35% are desired.

Applications

Recommended for use in:

- Backfill (flowable fill) – sewer trenches, utility trenches, bridge abutments, retaining walls, conduit trenches, etc.
- Structural Fill foundation sub bases, floor slab bases, pipe bedding

Features

MasterCell 25 admixture produced CLSM can be used in any application in lieu of compacted soil. MasterCell 25 admixture is used in flowable fill mixes to lower the density (unit weight), eliminate settlement, and to control strength development. It produces stable air contents of 15-35% and reduces water content by as much as 50%.

Benefits

- Increased yield
- Optimum workability can be produced in either fluid or plastic consistency
- Increased pumpability
- Little or no bleeding
- No segregation
- Reduced shrinkage
- Reduced settlement
- Control of strength development
- Cost-effective compared to in-place cost of compacted soil



Performance Characteristics Technical Data

	Mix 1 1 yd ³ (0.8 m ³) Load	Mix 2 4 yd³ (3 m³) Load
Cement, lb/yd ³ (kg/m ³)	95 (56)	100 (60)
Sand, lb/yd³ (kg/m³)	2,260 (1,340)	2,220 (1,320)
Water, lb/yd ³ (kg/m ³)	308 (183)	177 (105)
MasterSet AC 534 admixture, fl oz/cwt (mL/100 kg)	16 (1,040)	_
MasterCell 25 admixture	1 Small Bag	1 Large Bag
Air Content	33%	35%
Compressive Strength, psi (MPa)		
@ 28 Days @ 58 Days	40 (0.3) 60 (0.4)	110 (0.8) 160 (1.1)

Note: Setting times may be extended when high air content producing materials are used. If an earlier load bearing (set) time is desired, an accelerating admixture may be used in the flowable fill mixture.

Guidelines for Use

MasterCell 25 admixture is a powdered material packaged in a ready-to-use disintegrative bag. MasterCell 25 admixture is formulated for use in producing flowable fill mixtures. It is not recommended for use in conventional concrete.

MasterCell 25 admixture performs best when added to mixes with an initial slump of 1-3 in. (25-75 mm). If necessary, the water content of the mix should be adjusted to obtain a maximum 3 in. (75 mm) initial slump. The MasterCell 25 admixture bag is simply tossed into the truck hopper and mixed with the previously batched materials for a minimum of 5 minutes at slow mixing speed. It is not necessary to wash down the hopper after adding MasterCell 25 admixture.

MasterCell 25 admixture may be added at the jobsite or at the ready-mixed concrete plant.

Storage and Handling

Storage Temperature: MasterCell 25 admixture should be stored in a dry area at temperatures below 130 °F (54 °C).

Handling: The use of gloves and goggles are recommended when handling MasterCell 25 admixture.

Shelf Life: MasterCell 25 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 MasterCell 25 admixture has been exceeded.

Packaging

MasterCell 25 admixture is available in two sizes. The small bag will treat 1 yd³ (0.8 m³) and the large bag will treat 4 yd³ (3 m³). MasterCell 25 admixture is supplied by the case:

- 1 yd³ (0.8 m³) bag 40 bags per case
- 4 yd³ (3 m³) bag 20 bags per case

Related Documents

Safety Data Sheets: MasterCell 25 admixture

Additional Information

For additional information on MasterCell 25 admixture, 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.

Limited Warranty Notice

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Technical Data Sheet

* Rheocell Rheofill became MasterCell 25 under the Master Builders Solutions brand, effective January 1, 2014.

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