

Description

Rheocell Rheofill admixture is a ready-to-use, self-contained 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

RHEOCELL® RHEOFILL™

Admixture for Controlled Low Strength Materials (CLSM)

Features

Rheocell Rheofill admixture produced CLSM can be used in any application in lieu of compacted soil. Rheocell Rheofill 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

	Mix 1 1 yd ³ (0.8 m ³) Load	Mix 2 4 yd ³ (3 m ³) Load
Cement, lb/yd ³ (kg/m ³)	95 (56)	100 (60)
Sand, lb/yd ³ (kg/m ³)	2,260 (1,340)	2,220 (1,320)
Water, lb/yd ³ (kg/m ³)	171 (100)	177 (105)
Pozzoloth, NC 534 admixture, fl oz/yd ³ (mL/m ³)	16 (619)	–
Rheocell Rheofill admixture	1 Small Bag	1 Large Bag
Air Content	33%	35%
Compressive Strength, psi (MPa)		
@ 28 Days	110 (0.8)	40 (0.3)
@ 45 Days	160 (1.1)	60 (0.4)

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

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

Rheocell Rheofill 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 Rheocell Rheofill 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 Rheocell Rheofill admixture.

Rheocell Rheofill admixture may be added at the jobsite or at the ready-mix plant.

Storage and Handling

Storage Temperature: Rheocell Rheofill 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 Rheocell Rheofill admixture.

Shelf Life: Rheocell Rheofill admixture has a minimum shelf life of 12 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your BASF Construction Chemicals representative regarding suitability for use and dosage recommendations if the shelf life of Rheocell Rheofill admixture has been exceeded.

Packaging

Rheocell Rheofill 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). Rheocell Rheofill 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

Material Safety Data Sheets: Rheocell Rheofill admixture.

Additional Information

For additional information on Rheocell Rheofill admixture, contact your BASF Construction Chemicals representative.

The Admixture Systems business of BASF Construction Chemicals is a leading provider of innovative additives for specialty concrete used in the ready mix, precast, manufactured concrete products, underground construction and paving markets throughout the NAFTA region. The Company's respected Master Builders brand products are used to improve the placing, pumping, finishing, appearance and performance characteristics of concrete.

BASF Construction Chemicals, LLC
Admixture Systems

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