

RHEOCELL® RHEOFILL™

Admixture for Flowable Fill Materials (CLSM)

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.

RECOMMENDED FOR:

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.

RHEOCELL RHEOFILL admixture can be used in the following applications:

Backfill (flowable fill) - sewer trenches, utility trenches, bridge abutments, retaining walls, conduit trenches, etc.

Structural Fill - foundation subbases, floor slab bases, pipe bedding

ADVANTAGES AND BENEFITS:

RHEOCELL RHEOFILL admixture produces stable air contents of 15 to 35%. Flowable fill produced with RHEOCELL RHEOFILL admixture offers the user the following:

- Reduced water content by as much as 50%
- 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

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.



PERFORMANCE DATA USING TYPE II CEMENT:

	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 (60)	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)
POZZOLITH NC 534 fl oz/yd ³ (mL/m ³)	16 (619)	X
RHEOCELL RHEOFILL	1 Small Bag	1 Large Bag
Air Content	33%	35%
Compressive Strength, psi (MPa)		
@ 28 Day	110 (0.8)	40 (0.3)
@ 56 Day	160 (1.1)	60 (0.4)

USAGE INFORMATION:

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 mixes. **It not recommended for use in conventional concrete.**

RHEOCELL RHEOFILL admixture performs best when added to mixes with an initial slump of 1 to 3 in. (25 to 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 may be added at the jobsite or at the ready-mix plant.

PACKAGING/ESTIMATING:

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

TEMPERATURE PRECAUTION:

RHEOCELL RHEOFILL admixture should be stored in a dry area at temperatures below 130 °F (54 °C).

CAUTION:

Gloves and goggles are recommended when handling RHEOCELL RHEOFILL admixture.

For additional information on RHEOCELL RHEOFILL admixture contact your local Master Builders Representative.

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