



The Chemical Company

# RHEOCELL<sup>®</sup> RHEOFILL

Admixture for flowable fill materials

## DESCRIPTION

**RHEOCELL RHEOFILL** 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** produced Controlled Low-Strength Material (CLSM) can be used in any application in lieu of compacted soil. **RHEOCELL RHEOFILL** is used in flowable fill mixes to lower the density (unit weight), eliminate settlement, and to control strength development.

**RHEOCELL RHEOFILL** can be used in the following applications:

- 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 AND BENEFITS

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

- Improved pumpability** Improves workability.
- Good cohesion** Minimises bleeding and segregation even at high workability. Excellent concrete quality.
- Controlled strength development** Good concrete quality.

*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.

## TYPICAL PERFORMANCE DATA

	Mix 1 (0.8 m <sup>3</sup> ) Load	Mix 2 (3 m <sup>3</sup> ) Load
Cement (kg/m <sup>3</sup> )	60	60
Sand (kg/m <sup>3</sup> )	1340	1320
Water (kg/m <sup>3</sup> )	171	105
Pozzolih 534HE (ml/m <sup>3</sup> )	619	X
<b>RHEOCELL RHEOFILL</b>	80 gm	1 Large Bag
<b>Air Content</b>	33%	35%

## Compressive Strength, MPa (psi)

@28 Day	0.8 (110)	0.3 (40)
@56 Day	1.1 (160)	0.4 (60)

## APPLICATION

**RHEOCELL RHEOFILL** performs best when added to mixtures with an initial slump of 25 to 75 mm.

If necessary, the water content of the mix should be adjusted to obtain a maximum 75 mm initial slump. The **RHEOCELL RHEOFILL** 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**.

**RHEOCELL RHEOFILL** may be added at the jobsite or at the ready-mix plant.

## DOSAGE

**RHEOCELL RHEOFILL** is available in two sizes. The small bag will treat 0.8m<sup>3</sup> and the large bag will treat 3m<sup>3</sup>.

## PACKAGING

**RHEOCELL RHEOFILL** is supplied by the case:

- 0.8 m<sup>3</sup> bag - 40 bags per case
- 3 m<sup>3</sup> bag - 20 bags per case

## SHELF LIFE

**RHEOCELL RHEOFILL** can be stored for 12 months if stored at temperatures above 5°C, in tightly sealed original packaging.

## PRECAUTIONS

**Health :** **RHEOCELL RHEOFILL** does not contain any hazardous substances requiring labelling.

It is safe for use with standard precautions followed in the construction industry, such as use of hand gloves, safety goggles, etc.

For detailed Health, Safety and Environmental recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

1-1-2-0208

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

## NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF Construction Chemicals** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF Construction Chemicals**, are responsible for carrying out procedures appropriate to a specific application.

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