

MasterCast® GF 300

DESCRIPTION

MasterCast GF 300 is a multi-component dry powder admixture for use in general purpose sand/cement grout mixtures to reduce mixing water requirements, slightly retard setting time and provide mild expansion in the plastic state.

RECOMMENDED USES

- General purpose grouting operations where total load bearing is not required.
- Sand/cement grouts requiring concrete strength for block wall construction.
- Sand/cement grouts to be pumped into hard to reach areas.
- Lean sanded grouts used to fill voids and provide support under or behind non-critical structures.
- Sand/cement grouts for pre-placed aggregate concrete applications above water (for under water applications use MasterFlow 88UW).
- Neat cement and cement/fly ash grouts for rock grouting and soil stabilisation.

NOTE:

MasterCast GF 300 is not recommended for applications where non-shrink performance and total load bearing support is required or in contact with highly stressed steel anchor bolts and cables where hydrogen embrittlement may be a concern. For these applications refer to BASF's range of Masterflow grouts.

FEATURES AND BENEFITS

- Reduction in mixing water.
- Enables correctly designed flowing sand/cement grouts to attain concrete strengths.
- Slight retardation.
- Extends holding time in the mixer and penetration time at the point of use. The amount of retardation provided will be reduced at higher temperatures.
- Lubricates grout mix.
- Facilitates penetration, reduces pumping pressures and permits transmission through long lines.
- Fluid phase expansion.

- Ensures complete filling of space to be grouted. The degree of expansion is related to the alkali content of the cement. Where expansion and compressive strength is important, mixes should be prepared in advance and tested for desired properties.

APPLICATION

MasterCast GF 300 is a partially soluble powder and should therefore be uniformly distributed in the mixing water before other solids are added. The recommended procedure is to start the mixer, add water and **MasterCast GF 300**, then add cement and sand.

ESTIMATING DATA

MasterCast GF 300 is formulated for use at the rate of 1kg per 100kg of cementitious material (cement plus fly ash or pozzolan) in the mix. A variation in the dosage rate of ± 0.1 kg is permissible for the purpose of providing fluid phase expansion within specified limits with various combinations of materials or brands of cement.

PACKAGING

MasterCast GF 300 is supplied as a dry powder in a 5kg degradable bag.

STORAGE / SHELF LIFE

Segregate from acids. Segregate from bases. Segregate from strong oxidizing agents. Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.

MasterCast GF 300 has a shelf life of 12 months.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Safety Data Sheet (SDS) from BASF office or website.



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MasterCast[®] GF 300

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF 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 either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF, are responsible for carrying out procedures appropriate to a specific application.

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