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MasterFlow[®]150 (formerly known as Flowcable 50)

Plasticised expanding admixture for cement slurry and grout

DESCRIPTION

MasterFlow 150 is a powder additive which when mixed with cementitious system imparts shrinkage compensation and high flowability, pumpability to the mix. It produces controlled expansion and minimises water demand.

RECOMMENDED USES

- Cable duct grouting
- Cavity filling
- Filling gaps between precast elements
- Repairing honeycombs by pressure grouting
- Site batched repair/reprofiling mortars
- Filling up the plumbing & electric chases

FEATURES AND BENEFITS

- **Based on gaseous expansion system** – compensates shrinkage in plastic stage
- **Plasticising action** – reduces water demand, improves strength and pumpability
- **Easy to use packing** – no mistakes on site
- **Only make what is required** - Most economical to use
- **Robust** - Compatible with wide range of chemical and mineral admixtures and rapid hardening portland cement and most types of portland cement

PROPERTIES

Aspect	: Brown/grey free flowing powder
Chloride ion content	: <0.2%
Dosage	: 500gm/100kg cement
Compressive strength at 7 days	: 29.2 MPa (Neat cement grout*) : 24.3 MPa (Cement sand grout*)
Volume Expansion	: up to 4% (Neat cement grout*) : up to 2% (Cement sand grout*)

*Properties of mix as suggested in directions for use

Compatibility with Cements

MasterFlow 150 is compatible with most types of Portland cements including Rapid Hardening Portland cement. During the winter months

when temperatures may fall to below 10°C, it is recommended that Rapid Hardening Portland cement should be used in grouts for filling the ducts of post-tensioned concrete members.

APPLICATION

Recommended grout specifications for grouting ducts of post-tensioned concrete members:

1. Neat cement grout:

Ordinary Portland cement:	100kg
MasterFlow 150:	500gms
Water:	Not more than 50 litres

2. Cement sand grout

Ordinary Portland cement:	100kg
Sharp graded sand (passing 1.18mm mesh sieve)	100kg
MasterFlow 150:	500gms
Water:	Not more than 54 litres

Surface Preparation

All areas to be grouted must be clean and free of oil, grease, dirt and contaminants. Remove all loose materials.

Where required, provide air-relief openings to avoid entrapment of air.

All metal components to be in contact with grout must be free of rust, paint, or oils.

All concrete to come in contact with the grout must be thoroughly saturated with clean water for a minimum of 12 hours before placement of grout. Remove excess water from holes and voids just before grout placement.

Mixing

First take approximately 80% of the water in the mixer and then the Portland cement, mix thoroughly until the cement has been completely dispersed. Then add **MasterFlow 150** and sand



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(if any is being used), and continue mixing a further 2 minutes or until complete dispersion of the **MasterFlow 150** is achieved.

Add the required quantity of water from the remaining 20 % until the desired consistency is achieved.

Placing

Cable Duct: Grouts for ducts of post-tensioned concrete members should be passed through a 1.18mm BS sieve before reaching the pump, and the pump should be capable of giving a continuous flow of grout to the injection equipment.

Bed grouting: Placing should be without interruptions until completion. Place the mixed grout into the pouring hopper of the formwork within 15 minutes after mixing. Place from one side only.

ESTIMATING DATA

MasterFlow 150 is used at the rate of 500gm per 100kg cement.

PACKAGING

MasterFlow 150 is available in 5 kg and 250 gm sachet.

SHELF LIFE

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Shelf life is 12 months when stored as above

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 Material Safety Data Sheet (MSDS) from our office or our website.

MasterFlow 150/01/0313

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