



The Chemical Company

MASTERFLOW[®] 96

Natural aggregate, general purpose grout

DESCRIPTION

MASTERFLOW 96 is a ready to use natural aggregate general purpose grout which undergoes controlled expansion in the plastic state. It is a Class 'A' grout as defined in ASTM C1107-97.

RECOMMENDED FOR

All general purpose grouting operation such as:

- Column bases
- An in-fill grout for cavity block walls
- Between pre-cast panels and other joints where total load-bearing is not required
- Underpinning where a grout similar in appearance to concrete is required

Please consult your local BASF Construction Chemicals representative on other grout applications.

FEATURES AND BENEFITS

- Ready to use, premixed grout requires only the addition of mixing water on site
- Low water / cement ratio reduces drying shrinkage and increase durability
- May be damp packed without slumping
- Complete void filling resulting from controlled fluid-phase expansion
- Non-staining grout, similar in appearance to plain concrete
- Economical, relatively low in-place cost due to its ease of use and flowable properties
- Chloride free

TYPICAL PERFORMANCE DATA

The strength of the grout is often the determining factor in deciding when loads can be put on structural members or machinery that has been grouted. The strength of the grout is dependent on the amount of mixing water, temperature (ambient and grout), curing and age of the hardened grout.

<u>Compressive strength</u>	Flowable	Trowellable
1 day :	18 N/mm ²	22 N/mm ²
3 days :	30 N/mm ²	39 N/mm ²
7 days :	41 N/mm ²	45 N/mm ²
28 days :	50 N/mm ²	55 N/mm ²

Estimate setting time

Initial : 5 hr
 Final : 6 hr

PROPERTIES

Supply form : Powder
 Colour : Cement grey
Density (wet)
 Flowable : 2.18
 Trowellable : 2.26

APPLICATION

Preparation

The foundation should be clean, well roughened and pre-saturated with water. Eliminate external sources of vibration until the grout hardens.

Mixing

For large quantities, use a paddle type mortar mixer. For smaller quantities, mix in a 20 – 25 litre pail using a heavy duty electric drill (e.g. Festo) fitted with a helical paddle (jiffy). When using a mortar mixer, add approximately 80% of the water in the mixer. Keeping the mixer running, add **MASTERFLOW 96** slowly. Mix for at least 3 minutes until a lump-free mix is obtained. Add the remaining water while continuing to mix until the desired consistency is achieved. When using a helical mixer, add all the required water before adding any dry grout. Mix for 1 – 2 minutes. Do not use grout from damaged bags.

CLEANING

Clean tools and equipment with water before **MASTERFLOW 96** has hardened, otherwise mechanical cleaning will be required.

ESTIMATING DATA

Actual amount of water will depend on the desired consistency for the job and temperature (both ambient and grout). For any given consistency, more water will be required at high temperatures and less at low temperatures.

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As a guide, the yield from 25 kg of grout mixed at the following amount of water, with different quantities of aggregates (eg. Aggregate density = 2.6) is given below:

	Nil Aggregate	13 kg aggregate	25 kg Aggregate
Flowable: @ 4.5L of water	13.5 L	18.5 L	23.1 L
Trowellable: @ 3.4L of water	12.5 L	17.5 L	22.1 L

Do not use water in an amount or at a temperature that will cause the mixed grout to bleed excessively or segregate.

PACKAGING

MASTERFLOW 96 is supplied in 25 kg in multi-ply paper sacks

SHELF LIFE

MASTERFLOW 96 has a shelf life of 12 months if stored in a dry, cool place in unopened bags.

PRECAUTIONS

The cementitious material in **MASTERFLOW 96** may cause irritation. Avoid contact with eyes and prolonged contact with skin.

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

AN/MFlow96/v4/191110

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

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