

MasterFlow[®] 524 (Formerly known as Masterflow 524M)

High strength, non-shrink, cementitious construction grout

DESCRIPTION OF PRODUCT

MasterFlow 524 is a ready to use product in powder form, which requires only on-site addition of water to produce a non-shrink grout of predictable performance.

APPLICATIONS

MasterFlow 524 is formulated for use at plastic or flowable consistency, and may be used with confidence for bedding, grouting and void filling operations.

ADVANTAGES

- Non-shrink
- Adjustable consistency
- Proven and predictable performance
- High bond strength to steel and concrete
- Early strength development
- Impermeable

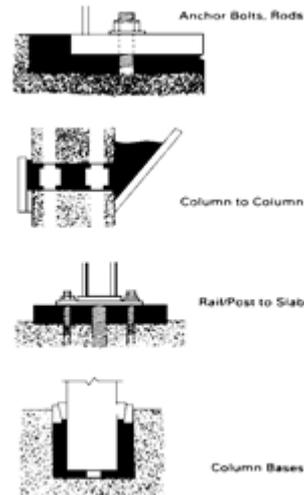
PACKAGING

MasterFlow 524 is supplied in 30kg bags.

TYPICAL PROPERTIES

Water addition	Flowable	3.2ltr/30kg
	Plastic	2.75ltr/30kg
Density	Flowable	2230kg/m ³
	Plastic	2350kg/m ³
Free expansion:		2-4%
Restrained expansion:		0-0.4%
Compressive Strength N/mm ²	Flowable at	
ASTM C-109:	3.2ltr/Bag	
1 day		17-19N/mm ²
3 days		20-25N/mm ²
7 days		30-35N/mm ²
28 days		40-45N/mm ²
Flexural Strength N/mm ² BS 6319	Flowable	
Part 3:		
28 day		5.95
Tensile Strength N/mm ² BS 6319	Flowable	
Part 7:		
28 day		3.04
Water penetration DIN 1048 Part	Nil	
5:		

TYPICAL APPLICATIONS



APPLICATION PROCEDURE PREPARATION:

The surface onto which the grout is to be applied should be scabbled to remove laitance and expose aggregate. Do not use bush hammers or similar preparation equipment that can crush the aggregate but leave it in place. The surface must be free of oil, dust, dirt, paint, curing compounds or other contaminants that could impair adhesion. Soak area to be grouted to minimise absorption. Surfaces should be damp but free of standing water. Particular attention should be paid to bolt holes to ensure that these are water-free. Use oil free compressed air to blow out bolt holes and pockets as necessary. Base plates, bolts etc. must be clean and free of oil, grease and paint. Set and align equipment. If shims are to be removed after the grout has set, then lightly grease them for easy removal. Ensure formwork is secure and watertight to prevent movement and leaking during the placing and curing of the grout.

MasterFlow[®] 524 (Formerly known as Masterflow 524M)

MIXING

Damp down the inside of the grout mixer with water prior to mixing the initial batch of **MasterFlow 524**. Ensure the mixer is damp but free of standing water. Add the pre-measured quantity of water. Slowly add the **MasterFlow 524**, mixing continuously. Mix for 3-5 minutes until a smooth, uniform, lump-free consistency is achieved.

PLACING

Place immediately after mixing, into the prepared area in such a manner that the grout has the shortest distance to flow. Pour the grout continuously maintaining a constant hydrostatic head wherever possible.

MasterFlow 524 grouts are suitable for use with most types of pumping equipment.

Immediately after **MasterFlow 524** grout is placed, cover all exposed grout with clean wet hessian and keep moist until grout surface is ready to be finished, or until final set. Alternatively, consider the use of a curing membrane from the Masterkure range.

STORAGE

Store out of direct sunlight, clear of the ground, on pallets protected from rainfall. Avoid excessive compaction. Storage life is approximately 12 months when stored in ideal conditions in original sealed bags.

PRECAUTIONS

The temperature of both the grout and elements coming into contact with the grout should be in the range of +5°C to +35°C. Do not use water in an amount of grout at a temperature that will produce a consistency more than flowable or cause mixed grout to bleed or segregate.

MasterFlow 524 should be laid at a minimum thickness of 10mm and to a maximum depth of 80mm. For applications above 80mm, consider the use of **MasterFlow 928**.

For applications below 10mm, consult BASF's Technical Services Department for advice.

DO NOT OVERWORK AND AVOID USING MECHANICAL VIBRATION.

UNDER NO CIRCUMSTANCES SHOULD **MasterFlow 524** BE RE-TEMPERED BY LATER ADDITION OF WATER.

It is essential that a mechanically powered grout mixer be used to obtain the optimum properties. A slow speed drill and mixing paddle may be used for single bag batches only.

YIELD/CONSUMPTION

Water content 3.2 ltr. /30 kg yield /consumption
14.8 ltr. /30kg

NOTE:

For precision grouting of heavy machinery, use **MasterFlow 928**.

When a very rapid set is required in areas subject to chemical spillage or contamination, use epoxy grouts **MasterSeal 915**.

For additional information on **MasterFlow 524** grout or other non-shrink grouting materials, contact your BASF representative.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken, during use and storage, to avoid contact with the eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Re-seal containers after use.



The Chemical Company

MasterFlow[®] 524 (Formerly known as Masterflow 524M)

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information, contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

REQUEST AND REFER TO RECOMMENDED
INSTALLATION PROCEDURES FOR
MasterFlow EPOXY GROUTS PRIOR TO USE

QUALITY STATEMENT

All products manufactured by BASF Egypt, or imported from BASF affiliate companies worldwide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007 standards.

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the BASF-Group in many countries

BASF-CC, Egypt
Cairo Festival City, Building A1
Business District 1st Floor
11835 Cairo, Egypt
Factory: Sadat City, Piece 118
Zone 4
Tel.: +2 012 393 98 44
Tel.: +2 012 398 67 78
Tel.: +2 012 390 22 35
Tel.: +2048 2604842
Fax: +2048 2604757

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

website: www.master-builders-solutions.basf.com.eg

As all BASF technical datasheets are updated on a regular basis, it is the user's responsibility to obtain the most recent issue. Most recent issue is available on the website at www.basf-cc.com.eg

BASF_CC-GE/Flow_524_09_10/v1/01_15

