

# MasterFlow<sup>®</sup> 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

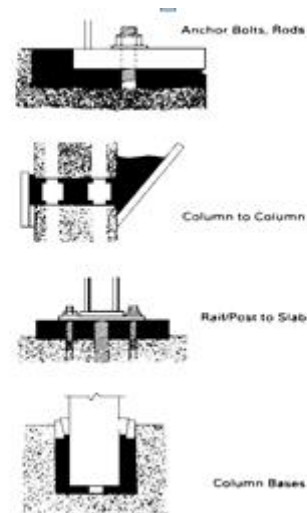
## PACKAGING

**MasterFlow 524** is supplied in 30kg bags.

## TYPICAL PROPERTIES

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

## 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.

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## 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.



We create chemistry

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## 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.

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BASF-CC, Egypt  
Business Park A, Building A1,  
Cairo Festival City, Ring Road  
New Cairo, Egypt  
Factory: Sadat City, Piece 118  
Zone 4  
Tel.: +2 25980800  
Tel.: +2 012 393 98 44  
Fax: +2 25980801  
Tel.: +2048 2658107/8  
Fax: +2048 2658106

website: [www.master-builders-solutions.basf.com.eg](http://www.master-builders-solutions.basf.com.eg)

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