

MasterFlow® 524

High strength, non shrink cementitious construction grout

DESCRIPTION

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

TYPICAL 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 and adjustable consistency
- Proven and predictable performance
- · High bond strength to steel and concrete
- Early strength development even at flowable consistency
- Impermeable

PACKAGING

MasterFlow 524 is supplied in 25 kg bags.

TYPICAL PROPERTIES*

Water addition	Flowable	3.75 L / 25 kg
	Plastic	3.40 L / 25 kg
Density	Flowable	2230 kg / m³
	Plastic	2350 kg / m³
Free expansion		2-4 %
Restrained		0-0.4 %
expansion		

TYPICAL PROPERTIES @ 3.75 L WATER / 25KG BAG

Compressive Strength BS EN 12390-3		
1 day	>30 N/mm²	
28 days	>60 N/mm²	
Flexural Strength EN 196-1		
28 day	>6 N/mm²	

APPLICATION GUIDELINES

SURFACE 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.

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 / APPLICATION

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 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.



MasterFlow® 524

COVERAGE / YIELD

12.9 L / 25 kg bag at flowable consistency. 78 x 25 kg bags / m³.

STORAGE AND SHELF LIFE

Store out of direct sunlight, clear of the ground on pallets protected from rainfall. Avoid excessive compaction.

Storage life is 12 months when stored in ideal conditions in original sealed bags.

HEALTH AND SAFETY

As with other products containing Portland cement, the cementitious material in **MasterFlow 524** grout may cause irritation. In case of contact with eyes, immediately flush with plenty of water for at least 15 minutes. Call a physician. In case of contact with skin, wash skin thoroughly.

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 or 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 a maximum of 80mm.

For applications above 80mm consider the use of **MasterFlow 980**.

DO NOT OVERWORK AND AVOID USING MECHANICAL VIBRATION.

UNDER NO CIRCUMSTANCES SHOULD MasterFlow 524 BE RETEMPERED BY THE LATER ADDITION OF WATER.

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

NOTE

For precision grouting of heavy machinery use **MasterFlow 928** or in critical operating conditions MASTERFLOW 885.

When a very rapid set is required in areas subject to chemical spillage or contamination, use epoxy grouts MasterFlow 400 / MasterFlow 648.

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

QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

Request and refer to recommended installation procedures for **MasterFlow** grouts prior to use

- * Properties listed are based on laboratory controlled tests.
- ® = Registered trademark of the MBCC Group in many countries.

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NOTE

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