

MasterFlow® 526

High strength, non shrink cementitious construction grout

DESCRIPTION

MasterFlow® 526 is a ready to use product in powder form, which requires only the on-site addition of water to produce a non-shrink flowable grout.

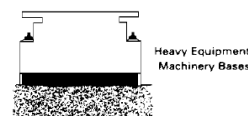
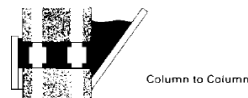
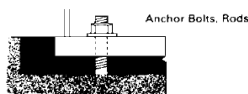
APPLICATIONS

MasterFlow® 526 is formulated for use at plastic or flowable consistency and may be used with confidence for bedding grouting and void filling operations. Due to special formulation **MasterFlow® 526** shall be applied at a thickness range of 20 mm to 150 mm in a single pour.

ADVANTAGES

- Non shrink
- Adjustable consistency
- Proven and predictable performance
- High bond strength to steel and concrete
- Early strength development even at flowable consistency
- Impermeable
- Designed for Middle East weather conditions
- Filling void between pipe & concrete in manholes/water tanks
- Suitable for pumping & pouring applications
- Low VOC & Emission

TYPICAL APPLICATIONS



Key ■ MasterFlow 526

PACKAGING

MasterFlow® 526 is supplied in 25kg bags.

TYPICAL PROPERTIES

Water addition	Flowable	3.7 L / 25 kg 4.4 L / 30 kg
	Plastic	3.0 L / 25 kg 3.6 L / 30 kg
Density	Flowable	2230 kg / m ³
	Plastic	2350 kg / m ³
Free expansion		2 to 4 %
Restrained expansion		0 to 0.4 %
Compressive Strength (N/mm ²)		
	Flowable	Plastic
1 Day	35.00	45.00
3 Days	45.00	55.00
7 Days	55.00	65.00
28 Days	65.00	70.00
Flexural Strength (N/mm ²)		
7 Days	>10.00	>11.00
28 Days	>12.00	>13.00
Tensile Strength (N/mm ²)		
7 Days	>1.50	>2.00
28 Days	>2.00	>2.50
VOC (SCAQMD Rule 1113)		< 1 g/l
CDPH (emission rate)		< 10µg/m ² *h

*Properties listed are based on laboratory controlled tests.

Standards

MasterFlow® 526 complies to the requirements of the following standards:

ASTM C 1107 – 99, ASTM C 827- 78,
ASTM C 878 – 87

PREPARATION:

The surface onto which the grout is to be applied should be scraped to remove laitance and expose aggregate. The surface must be free of oil, dust, dirt, paint, curing

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compounds or other contaminants that could impair adhesion. Soak area to be grouted to minimize 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 initial batch of **MasterFlow[®] 526**. Ensure the mixer is damp but free of standing water. Add the pre-measured quantity of water. Slowly add the **MasterFlow[®] 526**, mixing continuously. Mix for five 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 grouts are suitable for use with most types of pumping equipment. Immediately after **MasterFlow[®] 526** 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

MasterFlow[®] 526 should be stored as for cement in cool dry conditions. Storage life is 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 or at a temperature that will produce a consistency more than flowable or cause mixed grout to bleed or segregate

MasterFlow[®] 526 is formulated for high thicknesses applications up to 150 mm, however it is suitable for use at a minimum thickness of 20 mm.

For thickness > 150 mm **MasterFlow[®] 526** shall be mixed with 10kg of 6-10 mm washed aggregate per 25 kg bag.

For applications below 20 mm consult Master Builders Solution's Technical Services Department for advice.

Note:

- To simulate on-site conditions, it is necessary to restrain cubes for the first 24 hours immediately after casting.
- Do not Overwork and avoid using Mechanical vibration.
- Under no circumstances should **MasterFlow[®] 526** be retempered by the 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

Pack Size	Consistency	Density	Bags	Water	Yield/ Cover age
25 Kg	Flowable	2230 kg/m ³	78	287 Liters	1 m ³
25 Kg	Plastic	2350 kg/m ³	84	252 Liters	1 m ³

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NOTE:

For precision grouting of heavy machinery use **MasterFlow® 928T/980** or in critical operating conditions **MasterFlow® 950**.

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® 526** grout or other non-shrink grouting materials, contact your Master Builders Solutions representative.

SAFETY PRECAUTIONS

As with other products containing Portland cement, the cementitious material in **MasterFlow® 526** 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.

NOTE

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

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

QUALITY AND CARE

All Master Builders Solutions Products are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards of ISO 9001 and Master Builders Solutions ESHQ recommendations.

* Properties listed are based on laboratory controlled tests.

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

CONTACT

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Disclaimer:

In view of widely varying site conditions and fields of application of our products, this technical data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with Master Builders Solutions and possible resulting damages are in the sole responsibility of the customer.

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