

# MasterFlow® 526HF

High strength, non shrink hydrogen free cementitious construction grout

## DESCRIPTION

**MasterFlow 526HF** 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, when grouting in large unrestrained open surface areas.

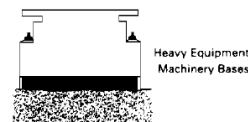
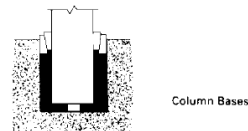
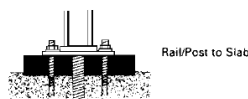
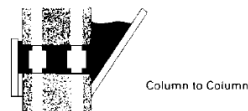
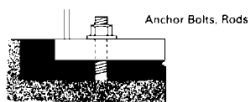
## APPLICATIONS

**MasterFlow 526HF** is formulated for use at plastic or flowable consistency, and may be used with confidence for bedding grouting and void filling operations. Larger aggregate is used to enhance performance in unrestrained areas.

## ADVANTAGES

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

## TYPICAL APPLICATIONS



Key ■ MasterFlow 526

## PACKAGING

**MasterFlow 526HF** 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 <sup>3</sup>
	Plastic	2350 kg / m <sup>3</sup>
Free expansion		2 to 4 %
Restrained expansion		0 to 0.4 %
Compressive Strength (N/mm <sup>2</sup> )		
	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 <sup>2</sup> )		
1 Day	9.10	9.20
3 Days	10.20	10.90
7 Days	10.90	13.20
28 Days	13.50	15.10
Tensile Strength (N/mm <sup>2</sup> )		
1 Day	2.10	1.90
3 Days	2.70	2.70
7 Days	2.45	3.0
28 Days	3.10	3.15

\*Properties listed are based on laboratory controlled tests.

## Standards

**MasterFlow 526HF** exceeds 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

# MasterFlow® 526HF

High strength, non shrink hydrogen free cementitious construction grout

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 526HF**. Ensure the mixer is damp but free of standing water. Add the pre-measured quantity of water. Slowly add the **MasterFlow 526HF**, 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 526HF** 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 526HF** 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 526HF** should be laid at a minimum thickness of 25mm and up to a depth of 125mm

For applications above and below the mentioned thickness range consult Master Builders Solutions's technical department for advice

DO NOT OVERWORK AND AVOID USING MECHANICAL VIBRATION. UNDER NO CIRCUMSTANCES SHOULD **MasterFlow 526HF** 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/ Cove rage
25 Kg	Flowable	2230 kg/³	78	287 Liters	1 m³
30 kg	Flowable	2230 kg/³	65		
25 Kg	Plastic	2350 kg/³	84	252 Liters	1 m³
30 kg	Plastic	2350 kg/³	70		

## NOTE:

For precision grouting of heavy machinery use **MasterFlow 928T** 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 / MasterSeal 915**.

# MasterFlow® 526HF

High strength, non shrink hydrogen free cementitious construction grout

For additional information on **MasterFlow 526HF** 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 526HF** 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

Should you require any further information, please do not hesitate to contact us:

[www.master-builders-solutions.com/en-sa](http://www.master-builders-solutions.com/en-sa)  
[enquirycc.saudi@mbcc-group.com](mailto:enquirycc.saudi@mbcc-group.com)  
M: +966 13 853 8600

Master Builders Solutions Saudi Arabia for Manufacturing LLC.  
P.O. Box 1884, Al Khobar, KSA

## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions 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.

### 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.

All descriptions, drawings, photographs, data, ratios, weights i.e. stated herein can be changed without advance notice and do not represent the condition of the product as stipulated by contract. It is the sole responsibility of the recipient of our products to observe possible proprietary rights as well as existing laws and provisions. The reference of trade names of other companies is no recommendation and does not exclude the use of products of similar type. Our information only describes the quality of our products and services and is no warranty. Liability is accepted for incomplete or incorrect particulars in our data sheets only in the event of intent or gross negligence, without prejudice to claims under product liability laws.