

MasterFlow[®] 525

Pre-bagged, flowable, pumpable, non-shrink, non-segregating, impermeable grout

DESCRIPTION

MasterFlow 525 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 525 is formulated for use as pumpable free flow grout for post tensioned and pre stressed cable ducts. It is also used with confidence for grouting and void filling operations such as void filling between old and new concrete or pipes, and fixing anchors or bolts in concrete or rock.

ADVANTAGES

- Pumpable in vertical and overhead grouting.
- Shrinkage compensated.
- Controlled expansion without producing undue pressure against sides in confined areas.
- Maintains high water retention.
- High flowability with reduced water content.
- Increased strength and good bond to concrete.
- Reduced bleed water.
- Improved impermeability.

TYPICAL PROPERTIES:

Compressive strength @ 28days (ASTM C – 109)	>50 N/ mm ²
Bleed	Min or no bleed
Fluidity (BSEN 445/ASTM C 939):	< 30 seconds at 25°C
Fresh Wet Density (kg/l):	2 approx.
Controlled Expansion	Up to 2.5% (no effect on structure)

*Properties listed are based on laboratory controlled tests.

PACKAGING:

MasterFlow 525 is supplied in 20kg bags.

MIXING:

Use approximately 6.5 – 7 litres of chilled water (4-5°C) per 20 kg bag of **MasterFlow 525**. Add water into the mixer and then powder to the water gradually while the mixer is on. Mix for approximately 5 minutes or until a uniform lump free consistency is achieved.

The use of ice cold water will facilitate ease of workability, avoids segregation and maintains flow retention in hot weather conditions of the Middle East.

For best results ensure that **MasterFlow 525** bags are stored in air-conditioned room at least 24 hour prior to application in order to maintain a material temperature between 18 and 25°C.

A slow speed drill fitted with a high shear mixer is suitable for quantities up to 60 kg. In case of large quantities it is recommended to use high shear vane mixer.

PUMPING:

MasterFlow 525 can be poured for cabling, bedding, jointing, void filling applications using gravity and the flowing properties of the grout to completely fill the gaps. For pumping **MasterFlow 525** flowable mix, pour the mixed grout into the pump hopper and start pumping. It is essential that the area to be grouted should be flooded with water several hours before grouting. Before the start of grouting operation, any free water should be removed.

YIELD:

Approximately 13.3 litres per 20kg bag.

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STORAGE

Store **MasterFlow 525** out of direct sunlight, clear of the ground on pallets protected from rainfall.

Avoid excessive compaction. Do not use if the bag is damaged or has been opened for more than 1 month.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult Master Builders Solutions representative in your area.

PRECAUTIONS

As with all chemical products, care should be taken during use and storage of **MasterFlow 525** to avoid contact with the eyes, mouth, skin and foodstuffs (which can also be tainted with vapor until product fully cured or dried).

Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

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.

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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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