

MasterFlow[®] 715 (formerly known as Masterflow 915)

Non-shrink, cementitious grout for use in general civil engineering works

DESCRIPTION

MasterFlow 715 is a ready to use, non-shrink, natural aggregate cementitious grout for use in general civil engineering works. **MasterFlow 715** provides extended working life and high early and ultimate strengths.

RECOMMENDED USES

MasterFlow 715 is recommended for:

- stanchion baseplates and columns;
- prefabricated concrete panels and beams;
- bridge bearing plates;
- anchor bolts and bars;
- underpinning;
- patch repair works.

FEATURES AND BENEFITS

- **High strength** – provides good early and ultimate strengths which ensure quick return to service and long term durability
- **Non shrink** – Hardens free of bleeding, settlement and drying shrinkage when placed at flowable consistency
- **Flowable consistency** – Ensures complete filling of even intricate voids often without the need for pumping and strapping
- **Ample working time** – Remains placeable – up to 1 hour - even at high ambient temperatures
- **Dense, impermeable grout** – Provides a good watertight seal
- **Economical** – Greater volumes of grout can be mixed and handled with less labour.
- **Easy to use** – requires no special mixing equipment, it can be mixed in a pail using a grout stirrer.
- **No added chloride** – Does not add to chloride load on structure
- **Provides complete non shrink performance** – When tested in accordance with simulated Bedplate Technique.
- **Versatile** – Can be placed from flowable to trowelable consistency

PROPERTIES

	Flowable
Compressive strength	
1 day	15 N/mm ²
3 days	25 N/mm ²
7 days	35 N/mm ²
28 days	50 N/mm ²
Flexural strength (ASTM C 78)	
28 days	7 MPa
Supply form	Powder
Colour	Cement grey
Water addition	17 %
Density (wet)	2.1 Kg/L

APPLICATION

MasterFlow 715 can be mixed to a flowable or trowelable consistency. The quantity of water required to produce a flowable grout from a 25 kg bag is approximately 4.25 litres.

Water addition may be affected by temperature conditions on site. Trials are recommended to determine the correct water requirement.

MasterFlow 715 should be mixed using a suitable mixer. For flowable consistency, use a hand drill and paddle for small works up to two bags at a time and specialise grout mixers for larger volume. Drum type mixers may not provide sufficient mixing efficiency to derive the optimum performance from the grout.

The correct volume of water should be added to the mixer followed by the powder. Mixing should continue until the grout has a smooth, lump free appearance. This will normally be between 3 – 5 minutes after mixing has started.

For best results, **MasterFlow 715** should be used within 30 minutes once mixed.

The substrate should be properly prepared and should be free from contamination, laitance and loose material. Thoroughly saturate the substance with water at least 2 – 3 hours prior to pouring the grout. All free water ponding should be blown out of the void just before pouring the grout.

As for all cementitious materials, curing is essential to prevent rapid drying out of the grout and shrinkage caused by the water loss. Curing should be effected by accepted methods such as curing



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compounds, polythene sheet, wet hessian or water ponding.

If a shaped shoulder is required, it should be formed before the grout has reached its final set. Carefully remove the formwork once the **MasterFlow 715** is self-supporting and cut the shape of the shoulder with a trowel. Preferably the shoulder should be cut to a 45° angle to minimise stresses.

CLEANING

Clean tools and equipment with water before **MasterFlow 715** has hardened, otherwise mechanical cleaning will be required.

ESTIMATING DATA

A 25 kg bag of **MasterFlow 715** when mixed to a flowable consistency (Add 4.25 litres water) will yield 13.9 litres grout.

PACKAGING

MasterFlow 715 is packaged in 25 kg moisture resistant bags.

SHELF LIFE

MasterFlow 715 has a shelf life of approximately 6 months when stored in a cool dry place in unopened sacks.

PRECAUTIONS

For detailed Health, Safety and Environmental Recommendations, please consult and follow all instructions on the product Material Safety Data Sheet (MSDS) from our office or our website.

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STATEMENT OF RESPONSIBILITY (Disclaimer)

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NOTE

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