

MasterFlow[®] 928

Cementitious high strength non-shrink precision grout

DESCRIPTION

MasterFlow 928 is a non-shrink, natural aggregate precision grout with excellent high early and ultimate strengths. It is specially formulated to provide extended working time even at high ambient temperatures when mixed and placed at any recommended consistency. **MasterFlow 928** is normally placed at a flowable consistency to completely fill voids between 25mm and 100mm. Thicknesses greater than 100mm are possible with the addition of aggregate.

RECOMMENDED USES

MasterFlow 928 is used for all precision, non-shrink grouting applications with clearances of 10mm or more, including

- critical equipment baseplates, soleplates & columns
- precast wall panels, beams, columns, structural building members and curtain walls
- patching poured in place concrete structures, e.g. honeycombing, using preplaced aggregate techniques;
- underpinning
- concrete repair applications where a form and pour material is required
- applications requiring high early compressive strengths and high ultimate compressive strengths

FEATURES AND BENEFITS

- **High early strength** – Ensures rapid commissioning of new equipment and structures.
- **High ultimate strength** – Ensures permanence of the installation under static and moderate repetitive loads.
- **Flowable long life grout** – Easy to grout intricate spaces normally inaccessible by conventional grouting technique.
- **Extended working time** – Facilitates grouting of large or difficult placements in a single pour, often without the use of a pump.
- **Dense, non-shrink grout** – Hardens free of bleeding, settlement and drying shrinkage, ensuring tight contact with all grouted surfaces.
- **Easy to use** – Requires no special mixing equipment, it can be mixed in a standard concrete mixer or in a pail using a grout stirrer.

- **No added chloride** – Does not add to chloride load of structure

APPLICATION

Supply form	Free flowing cement grey powder	
Density (wet)	2200Kg/m ²	
Volume expansion	>1.5% (Plastic stage)	
	>0.05% (hardened stage)	
Compressive strength at 25°C (ASTM C 109, 70mm Cube)	1 Day	35 MPa
	3 Days	55 MPa
	7 Days	65 MPa
	28 Days	75 MPa
Flexural strength (ASTM C 78)	28 Days	9 MPa
Modulus of Elasticity	28 Days	>32 GPa
Pull out Bond strength	7 Days	>17 MPa
Bond Strength to concrete	28 Days	>3 MPa
Dynamic load resistance	Condition of sample	undamaged
	Compressive strength	Slightly higher
Specimen subjected to alternating loads of 5 and 25 MPa at 300 cycles per minute and for 2000000 cycles and then tested for compressive strength		
VOC content: (SCAQMD 304-91)	6 g/L	

ESTIMATING DATA

One 25 kg bag of **MasterFlow 928** mixed with 3.75 L water will yield 13 L of flowable grout at 20°C.

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PACKAGING

For information about application, please obtain a copy of the Master Builders Solutions “Application Guide for MasterFlow Cementitious Precision Grouts” from your local representative. For ‘dry pack’ (*damp pack*) application, refer to **MasterFlow 700**.

SHELF LIFE

MasterFlow 928 has a shelf life of approximately 6 months when stored in a cool dry environment.

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

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.

NOTE

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Master Builders Solutions Malaysia Sdn Bhd
No. 8, Jalan Keluli 2, Kawasan Perindustrian Bukit Raja,
41050 Klang, Selangor, Malaysia.
Tel : +603 3082 1000

www.master-builders-solutions.com/en-asiapacific