

MasterFlow[®] 928T

Cementitious high strength non-shrink precision grout

DESCRIPTION

MasterFlow 928T 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 928T** 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 928T 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

PROPERTIES

Supply form	Free flowing cement grey powder	
Density (wet)	2200Kg/m ³	
Water to powder ratio	0.15±0.01 (3.75±0.25 litre)	
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 928T** mixed with 3.75 L water will yield 13 L of flowable grout at 20°C:

APPLICATION

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**.

PACKAGING

MasterFlow 928T is packaged in 25kg bags.

MasterFlow® 928T

SHELF LIFE

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

PRECAUTIONS

It is highly recommended to use necessary PPE (Gloves, mask etc.) during installation of the product. In case of Incidents of direct inhalation, causing dizziness/giddiness, loss of consciousness, contact with eyes etc, seek immediate medical advice. The requirements may vary depending on the application areas. Please

ensure to have proper ventilation while working in confined areas. Contact Master Builders Solutions representative in case you need further details or refer to the material safety datasheet of the product to know more.

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