

GROUTMAX HIGH STRENGTH FLOWABLE GROUT

TECHNICAL DATA SHEET



Ultimate
Compressive
Strength



Self
Compacting



Non Shrink,
Non Expandable,
Non Metallic



Free
Flowing



Non-Corrosive,
Chloride-Free



Resistant to
Impact &
Dynamic Load



Available in 40 kg Bag

PRODUCT DESCRIPTION

Magicrete GroutMax is a single – component, ready-to-use, non-stick, cementitious grout. It is specially formulated with high quality cement graded filters and additives to provide excellent flow, early strength gain and long term durability. The product is shrinkage-controlled, ensuring void-free grouting in critical structural and industrial applications.

SUITABLE FOR

Application Areas

- **Foundation Base Plates:** Ideal for grouting with design strength of 100 Mpa.
- **Machine Foundations and Beds:** Suitable for applications requiring high early strength.
- **Barrier Material:** Perfect for constructing strong rooms and vaults.
- **Harbors and Airports:** Excellent for concrete area repairs and maintenance.
- **Joining of Precast Elements:** Highly recommended for grouting precast components.

TECHNICAL DETAILS

Conforms to ASTM C1107

PHYSICAL PROPERTIES

PARAMETERS	RESULTS
Appearance	Grey powder
Bulk Density (dry powder) kg/m ³	1400 ± 50
Wet Density (fresh grout) kg/m ³	2300 ± 50
Water Requirement (per 20–25 kg bag) %	16% (Without coarse aggregates); 8%(With Coarse aggregate)
Workability (Initial Flow)	250mm
Workability after 15 minutes	200mm
Yield per 40 kg bag @ 16% w/p	19–20 Ltr
Pot Life (at 30 °C)	>45 minutes
Subsequent Usage Time (after mixing)	24 Hrs
Maximum Grain Size	

PERFORMANCE PROPERTIES

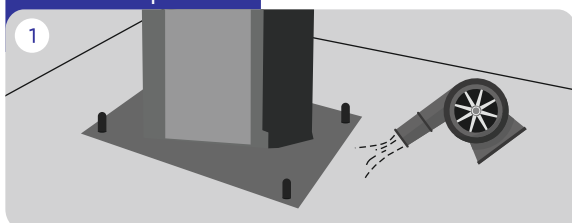
Compressive Strength @16% Water Demand

Test Method	ASTM Method	IS Method
Cube Size	50 mm	70.6 mm
1 day	> 40 Mpa	> 35Mpa
3 day	> 60 Mpa	> 55 Mpa
7 day	> 80 Mpa	> 70 Mpa
28 day	Upto 100 Mpa	> 90 Mpa

Parameters	Results	Test Methods
Expansion	< 0.3% @24 Hrs	ASTM C 940
Flexural Strength	>12 Mpa	ASTM C 348
Tensile Strength Mpa @28 days	8.5	ASTM 190
Splitting Tensile Strength Mpa @28 days	8	IS 5816 - 1999
Pull out bond strength Mpa @28 days	>8	IS 2770
MoH's Hardness No.	8-9	IS 13630 - 13
Modulus of Elasticity Gpa	50-55	ASTM C 469
Liner co-efficient of Thermal expansion mm/mm/Deg C	1 to 2X10 ⁻⁶	ASTM C 531
Chloride content	NIL	
Rapid Chloride penetration value	Moderate	ASTM 1202 - 03
Bleeding %	Nil	ASTM C 940
Abrasion resistance mm	0.5	IS 1237

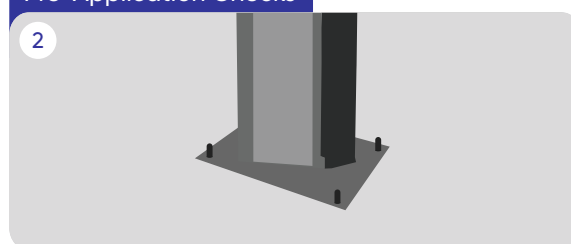
INSTALLATION

Surface Preparation



- Clean the surface by removing oil, dirt, dust, and laitance with wire brushing, water jetting, mopping or air blower. Ensure it's contaminant-free for proper adhesion.

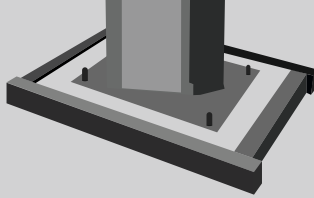
Pre-Application Checks



- Inspect reinforcement and elements to ensure structural requirements are met. Verify shuttering is leak-proof, with no gaps or loose materials, to prevent leakage during grouting.

Application of Bonding Agents

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- Apply appropriate anti-corrosion and bonding agents to old and renewed reinforcement bars, metal areas, and old-new concrete joints before grouting to enhance adhesion and protection.

Mixing

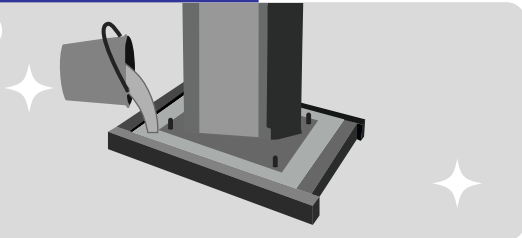
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- Mix Magicrete GroutMax with 16-17% water by weight, stirring constantly with mechanical mixing device until lump-free. Allow to stand for 2 minutes, then remix. Avoid adding extra water.
- Graded aggregate up to 12mm in a 1:1 ratio by weight can be added according to site requirements.
- For high volume applications, graded aggregate up to 20mm in a 1:1 ratio by weight can also be added.

Application and Curing

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- Pour the mixed Magicrete GroutMax onto the prepared substrate without mechanical vibrators. Avoid external vibrations as it is a self-compacting material. In cases of extreme climate conditions, curing is required to maintain strength and adhesion properties.

SHELF LIFE

- Factory packed bags of Magicrete GroutMax carries a shelf life of 9 months, if stored in cool & dry place. However, as temperature, humidity, water addition & other parameters vary from site to site.

SAFETY PRECAUTIONS

- Magicrete GroutMax is non-toxic and safe to use.
- It is recommended to wear gloves and goggles during use.
- Immediately wash off any splashes to the skin or eyes with clean water.
- Seek medical advice if irritation persists.



magicrete®

magic behind happy homes



Magicrete Building Solutions Pvt. Ltd.

(ISO 9001 :2015, ISO 14001 :2015 & ISO 45001 :2018 Certified co.)



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