

PRECISION GROUT NORMAL

Stiickcon Grout Normal is a cement-based, high-strength precision grout. It is developed by using special polymers. It is recommended for grouting with design strength up to 70+ Mpa.

AREAS OF APPLICATION

Stiickcon Grout Normal is ideal for precision grouting of steel columns, precast columns, precast beams, etc.; securing anchor bolts, dowel rods & heavy railings.

FEATURES & BENEFITS

- Ultimate compressive strength
- Self-compacting in nature
- Single component; easy-to-use
- Non shrink

TECHNICAL DATA AS PER RELEVANT IS & ASTM STANDARDS

Wet Density	2250-2350 Kg/m ³	
Max Size of Aggregates Suggested Along With Precision Grout Normal	Well graded up to 20mm	
Flowable Consistency Water Ratio (IS 516-1959)	11-12%	
Type Of Mixing	Mechanical mixer	
Subsequent Usage Time	24 hours	
Expansion % (ASTM C 940)	Nil	
Abrasion Resistance mm (IS 1237)	0.40	
Rapid Chloride Penetration Value (ASTM 1202-03)	Moderate	
Bleeding % (ASTM C 940)	Nil	
Chloride Content	Nil	
Pot Life	60 minutes	
Yield Per 40 Kg Bag @ 12% w/p Ratio	19-20 litres	
Flexural Strength @ 28 Days MPa (ASTMC 348)	10-11	
Linear Co-Efficient Of Thermal Expansion mm/mm/Deg C (ASTM C 531)	1 to 2 x 10 ⁻⁵	
Modulus of Elasticity GPa (ASTM C 469)	35-40	
Pull Out Bond Strength MPa @ 28 Days (IS 2770)	6-7	
Moh's Hardness No. (IS 13630 Part 13)	6-7	
Tensile Strength @ 28 Days MPa (ASTM 190)	5.5	
Split Tensile Strength MPa @ 28 Days (IS 5816-1999)	4	
Table For Compressive Strength MPa @ 11% w/p		
Test Method	ASTM Method	IS Method
Cube Size	50 mm	70.6 mm
1 day	30-35	25-30
3 day	40-45	35-40
7 day	60-65	55-60
28 day	Up to 80	Up to 80



Shelf Life:

Shelf life of 6 months from the date of manufacturing.

REFERENCE

ASTM C 1107, ASTM C190, ASTM C 940, ASTM C 469, ASTM C 348, IS 4031, IS 277, IS 5816

AREAS OF APPLICATION

Stiickcon Precision Grout **Normal** - is a grey Cement & Polymer-based, High strength grout. It is developed by using special polymers, it is recommended for grouting strength of minimum 70 Mpa (as per ASTM C 109). Suitable for Steel structural columns, Precast columns, Precast beams, Securing anchor & Dowel rods, Heavy railings.

FOLLOW THE STEPS FOR APPLIACTION



Preparation

- Clear dust, oil, bond inhibiting agents, by using wire brush mopping, etc.
- Do proper shuttering before pouring material.



Mixing Guideline

- Add 14-15% water by measurement with grouting material.
- Mix properly by mechanical stirrer until thick lump-free consistency is achieved.
- Avoid excess water use as it will hamper the strength & adhesion properties of Stiickcon grout.
- Can be used with 2 part Stiickcon grout & 1 part well graded aggregates.



Application

- Pour the mixed grout to the prepared substrate using appropriate pouring technique within 0.45 hr. of mixing.
- Don't use vibrator as it is self-compacting material, any external vibration will impact the product properties.
- Curing is required only for exposed areas.



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