



SAFFROKOL™



SAFFROFLOW GP-2

Technical Data Sheet



Compressive
Strength



Chloride-
free



Non-ferrous



Gains strength
quickly



Suitable for
both indoor
and outdoor



Easy
to use

PRODUCT DESCRIPTION

High Early Strength, Non-Shrink Cementitious Grout

Saffroflow GP-2 is a specially formulated, cement-based grout designed for high performance in a lot of applications. It is free-flowing, non-shrink, and works well across different consistencies—from flowable to pourable. The grout offers good adhesion to various surfaces and delivers good strength and durability, even with low water usage.

KEY FEATURES

- Non-shrink formulation for stable and reliable placement
- Free-flowing for easy application
- Strong adhesion to a variety of substrates
- Good flexural strength
- Resistance to vibrations
- Suitable for both indoor and outdoor use
- Single-component—just add water for use
- Consistent performance across different consistencies
- Medium early strength with low water demand

APPLICATION AREA

- Grouting under heavy equipment
- Filling gaps in reinforced concrete
- Precast concrete installations
- Bearing plates and steel column bases
- Anchoring bolts and other fixings

TECHNICAL DETAILS

Parameter	Results
Appearance	Non-Metallic, Free Flowing Grey Powder
Initial setting time	2-3 hours
Final Setting Time	5-7 hours
Fresh wet density	2200 ± 100 Kg/m ³
Pullout bond strength to steel	≥ 20 N/mm ² @ 28 Days
Time for Expansion	Start 20 minutes Finish 120 minutes
Expansion under unrestrained conditions	Upto 2%
Modulus Elasticity	≥ 28 N/mm ² (ASTM C 469)
Chloride Ions	≤ 0.05%
Carbonation Resistance	Passed
Water Powder	Flowable: 16 ± 1% Pourable: 18±1%
Flow on Table	300 ± 20 mm @ 18% W/P Ratio
Pot Life	50 ± 10 Minutes
Workability	25 ± 5 Minutes
Layer Thickness (Single Pour)	20-80 mm
Water Curing	7 Days
Compressive Strength (ASTM C 109, IS 4031- part 6) Cured in water tank	1 Day 14 N/mm ² 7 Days: 45 N/mm ² 28 Days 65 N/mm ²

COMPRESSIVE STRENGTH

ASTM C 109, IS 4031 PART 06, BS 1881 - PART 116: 1983

Days	Flowable (0.18)	Pourable (0.16)
1	24 N/mm ²	27 N/mm ²
7	55 N/mm ²	65 N/mm ²
8	65 N/mm ²	75 N/mm ²

COMPRESSIVE STRENGTH WITH AGGREGATE

(IS 4031 PART 06) AT W/P - (0.18)

Days	50% (Aggregate)	100% (Aggregate)
1	28 N/mm ²	31 N/mm ²
7	58 N/mm ²	68 N/mm ²
28	70 N/mm ²	80 N/mm ²

FLEXURAL STRENGTH

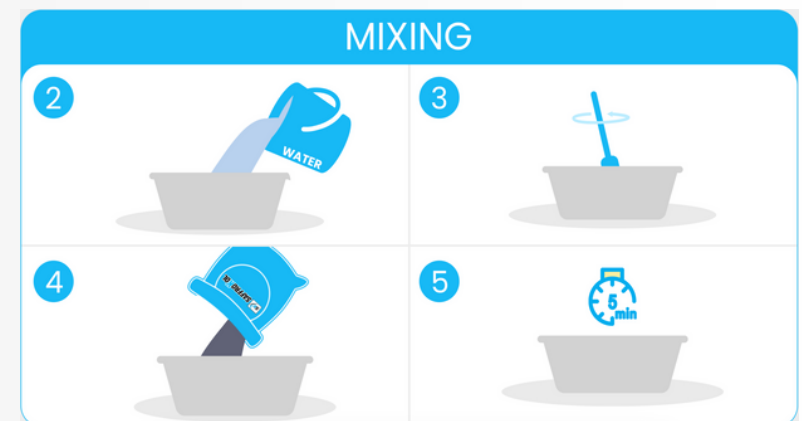
(BS 4551-1998)(IS:516-1959)

Days	Flowable (0.18)
1	2.5 N/mm ²
7	7.0 N/mm ²
28	10.0 N/mm ²

APPLICATION METHODS

1. Mixing

- Hand mix small amounts in a concrete pan until it becomes smooth.
- For larger quantities, use a drill with paddle or mechanical mixer.
- Mix for at least 5 minutes.
- Always add water first, then slowly add grout powder.
- Use only as much water as needed for the desired consistency.
- Mix in two steps:
 - Add part of the water and grout, mix.
 - Add remaining water, mix for 2–3 more minutes.
- Do not mix more than you can place in 30 minutes.
- Water amounts and results are based on lab conditions.



2. Placing

- Place grout quickly and continuously.
- All spaces should be filled and grout stays in contact with base plate.
- Maintain minimum 1" (25 mm) vertical clearance.
- For thinner clearances, consider a different grout type.

3. Curing

Check the grout doesn't dry out before it sets. Once it has set, keep it moist and covered for at least 7 days, or use a curing compound to help retain moisture.

4. Cleaning

Clean all tools and equipment immediately after use using warm, soapy water.

SHELF LIFE

Saffroflow GP-2 has a shelf life of 6 months from the production date if stored in its original sealed packaging, away from moisture, sunlight, and frost.

SAFETY GUIDELINES

Saffroflow GP2 is non-toxic but has an alkaline nature, so it's important to wear gloves while handling it. If the grout comes into contact with your skin or eyes, rinse it off immediately with clean running water. If any irritation continues, seek medical attention without delay.



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