



InnoChem
Smart Solutions, Strong Foundations

1ST FLOOR, GALA NUMBER 119, VAPI CO-OP INDL SOCIETY, GIDC, PLOT NUMBER 99, VAPI, VALSAD 396195.

InnoChem GROUT PLUS

HIGH STRENGTH. FLOWABLE. STRUCTURAL.

1.DESRIPTION

InnoChem Grout Plus is a ready-to-use, non-shrink, free-flowing, and high-strength cementitious grout.

It is specially engineered for precision grouting applications where it is essential to withstand both static and dynamic loads.

2.AREA OF APPLICATION

- Baseplate foundations of heavy machinery and equipment such as boilers and turbines
- Generator bearings
- Bridge bearing pads and structural columns in pre-cast and crane rail construction
- Cavities, gaps, recesses, and anchorage points

3.FEATURES

Easy to use: Ready-to-use formulation that reduces repair time

Long-lasting durability: Ensures excellent durability and strong structural repair

Pourable mortar: Self-compacting grout for reliable performance in high load-bearing areas

Shrinkage compensated: Dual expansion system with long-term drying shrinkage control to minimize cracking

High build technology: Can be applied up to 60 mm thickness in a single layer

Optimized mechanical properties: Excellent compressive, flexural, and tensile strength



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4. METHOD OF APPLICATION

4.1. SURFACE PREPARATION

- Concrete surfaces must be sound, stable, clean, and free from laitance, oil, grease, paint, mold release agents, or curing compounds.
- Metal surfaces should be rust-free and cleaned using wire brushing, water jetting, or other suitable methods.
- Defective concrete should be cut back to a sound base, exposing coarse aggregates.
- Corroded reinforcement must be exposed fully, cleaned thoroughly using **InnoChem Rust Cleaner**, and kept for 30 minutes until the surface appears bright.

4.2. APPLICATION

- Mix **InnoChem Grout Plus** using a high-shear grout mixer for uniform dispersion and workability.
- For 50 kg of **Grout Plus** at 27°C:
 - Use **7.0 – 7.5 litres of water** for a flowable consistency
 - Use **6.5 – 7.0 litres of water** for a dry/trowelable consistency
- Ensure mixing water is below 25°C (use ice if necessary, in hot weather above 40°C).
- Add ~85% of water first, slowly add powder, mix for 1–2 minutes, then add the balance water to achieve desired consistency.
- Do not exceed the maximum recommended water quantity.
- Mix further for 2–3 minutes until smooth and lump-free.
- Pour the grout continuously via a hopper from one side only to prevent air entrapment, maintaining a head of 150–250 mm to ensure smooth flow.
- Use tight, good-quality formwork.
- Saturate the substrate with clean water several hours before application; remove standing water before grouting.
- Ensure shuttering is leak-proof and strong enough to withstand grout pressure.



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PROPERTIES	RESULTS
Flexural Strength at 28 days	10 N/mm ²
APPEARANCE	FREE FLOWING POWDER
COLOUR	CEMENTITIOUS GREY
WATER TO POWDER	0.14 - 0.16
Flow on table @30°in mm	260MM
Compressive Strength @30°	25 N/mm ² at 1 day
	35 N/mm ² at 3 days
	55 N/mm ² at 7 days
	66 N/mm ² at 28 days

** Pull out bond strength at 7 days @ 0.14 Water to powder Ratio (N/mm²) is >17 having tensile strength of 5 N/mm² at 28 days**

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5. PRECAUTION AND LIMITATION

- Do not add excess water under any circumstances.
- Ensure robust shuttering to bear the weight and pressure of the grout.

**Product information given by company is shared in good faith for better understating of the product. It is meant to be used as a general guideline. There is no guarantee or warrantee undertaken if the output varies. These things depend on the applicator, the type of surface and other on-site related factors. We strongly recommend that the user does trials prior to full scale usage. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of product.