

General Purpose Grout

Technical Datasheet



DESCRIPTION:

Tec-Roc General Purpose Grout (GPG) is a pre-blended, cement-based construction grout formulated to provide reliable strength development and excellent flow characteristics for a wide range of construction applications. The product is designed for ease of use, consistent performance, and dependable placement in areas requiring effective bearing contact and stable support.

GPG is suitable for use where a non-shrink, free-flowing grout is required, including under stanchion plates, baseplates, machinery beds, steel columns, and general void-filling applications.

KEY FEATURES AND BENEFITS:

- ✔ **Excellent flowability:** Easily fills confined spaces and achieves full bearing support.
- ✔ **Non-shrink formulation:** Compensates for plastic shrinkage to maintain contact with the substrate.
- ✔ **High early and ultimate strength:** Suitable for structural and non-structural grouting.
- ✔ **Ready to use:** Requires only the addition of clean water.
- ✔ **Cement-based and chloride-free:** Safe for steel reinforcement.
- ✔ **Application depth:** Suitable for application depths up to 100 mm

TYPICAL APPLICATIONS:

- ✔ Grouting beneath machinery baseplates
- ✔ Supporting stanchions and steel columns
- ✔ Crane rails and precast elements
- ✔ General void filling in concrete substrates
- ✔ Anchoring holding-down bolts
- ✔ Infrastructure and maintenance works requiring a free-flowing grout

AVAILABILITY:

Tec-Roc GPG is available across the UK in 25kg bags.

TECHNICAL PERFORMANCE:

Compressive strengths	
1 Day	10-15 N/mm ²
7 Day	30-35 N/mm ²
28 Day	50-55 N/mm ²
Flexural strength	
28 Day	6.5-7.5 N/mm ²
Yield (at 22% water addition)	
15.0-15.3 Litres per 25 kg	
Approx. 1.64 tonnes of powder per m ³	
Shrink compensation	
1-4% positive expansion in the plastic state	
Working time	
Approx. 45 min (Temperature dependent)	
Setting times (Temperature dependent)	
Initial set	200-300 minutes
Final set	300-400 minutes

Note: above data is based on laboratory conditions at 18-20°C

MIXING INSTRUCTIONS:

1. Use a clean mixing vessel and mechanical mixer
2. Add 5.5 litres of clean water per 25 kg bag.
3. Pour around 70% of the water into the vessel
4. Slowly add the full bag of Tec-Roc GPG while mixing.
5. Add the remaining water to achieve the desired flow.
6. Mix for 3 minutes to produce a smooth, lump-free grout.

Note: Do not add extra water after the grout has begun to stiffen.

Tec-roc Construction Products

Electric Street
Burton-on-Trent
Staffordshire
DE14 1RQ

Enquiries:

Tel: 01283378778
Email: sales@tec-roc.com
Website: tec-roc.com

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APPLICATION GUIDELINES

- ✔ Ensure all surfaces are clean, sound, and free from oil, dust, and loose material.
- ✔ Pre-dampen the substrate to reduce suction, avoiding standing water.
- ✔ Pour continuously to maintain a wet edge and avoid air entrapment.
- ✔ Provide proper confinement so the grout remains in place during setting.
- ✔ For baseplates, ensure a minimum gap suitable for grout flow (typically ≥ 10 mm).
- ✔ Protect the placed grout from rapid drying, frost, and vibration during early hardening.

STORAGE AND SHELF LIFE

Store unopened bags in dry, frost-free conditions on pallets, off the ground. Shelf life: 12 months from manufacture when stored correctly.

HEALTH AND SAFETY

This product contains cement, which becomes alkaline when mixed with water. Avoid contact with skin and eyes. Use appropriate PPE, including gloves and eye protection. Refer to the Tec-Roc Safety Data Sheet (SDS) for full safety information.

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