

# TECHFIN GP GROUT

General Purpose Natural Aggregate Workable Non-Shrink Grout

Techfin GP Grout is a premixed ready-to-use dry grout with specially graded siliceous aggregates, shrinkage compensation chemicals and blended with Portland Cements to produce a non-shrink grout. It is grey coloured, non-oxidising and has no added chlorides or nitrates.

## BENEFITS:



*Non-shrink,  
Workable consistency.*



*Precision support under load bearing elements: machine base plates, crane and transporter rails, stanchions and column bases, anchor bolts, precast units, bridge bearings and for repairing of honeycomb in concrete.*



*High Early Strength. Obtains a minimum compressive strength to facilitate rapid installation and early operation of machinery / structures.*



*Free of bleeding and settlement maintaining tight contact with the underside of grouted elements. The grout when mixed and placed does not flow and remains free from segregation and bleeding.*



*Non-metallic: iron free aggregate grout used where a concrete or mortar appearance is required.*



*Durability - a dense and ultimate high strength grout which withstands repetitive loading requirements.*

## TECHNICAL DETAILS

Initial Set	± 2 hours at 20 °C
Final Set	± 4 hours at 20 °C
Yield	25 kg with 4 – 4.5 L water gives 13 L of grout.
Operating Temperature	Between 5 °C – 200 °C. Permissible for use with equipment exposed to the above temperatures
Shelf Life	±1 year stored dry and undercover on pallets away from ground moisture

## PACKAGING

Techfin GP Grout is supplied in 25 kg polywoven bags.

## COMPRESSIVE STRENGTH

	1 Day	3 Days	7 Days	14 Days	28 Days
MPa	20	40	50	65	67

The strength of Techfin GP Grout is dependent on the water content, curing procedure and age of hardened grout. The above must be considered, to determine the earliest equipment or machinery can be put into operation. Protect from freezing until cured for 28 days.

### Gauteng

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### Western Cape

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## APPLICATIONS

Techfin GP Grout is formulated for use at plastic or pourable consistency, and may be used with confidence for bedding, grouting and void filling operations.

## DIRECTIONS

All equipment to be grouted must be free of grease, oil and dirt and the concrete surface must be scabbled with suitable equipment, cleaned and be well saturated for 24 hours prior to grouting. Bolt holes should be blown free of water using grease free compressed air. Do not mix grout that cannot be used in  $\pm 30$  minutes. Once the grout has stiffened, do not re-temper by adding water.

## MIXING

Damp down the inside of the grout mixer with water prior to mixing the initial batch of Techfin GP Grout. Ensure there is no free standing water present in the mixer. Add the premeasured quantity (4 - 4.5 L) of water to the mixer and then slowly add the product with continuous mixing. Mix for 3 - 5 minutes until a smooth, uniform, lump free mix consistency is achieved.

## PLACING

Place immediately after mixing, into the prepared area in such a manner that the grout has the shortest distance to flow. Place with use of a trowel to achieve desired positioning and finish.

## ON SITE BULKING

For applications between 100mm and above, the addition of clean 6-13mm gravel or crusher stone is recommended. For on site gauging, a full 5 L bucket (approx. 10 kgs) of stone may be added per 25 kg of Techfin GP Grout. The water addition may need adjusting for the desired consistency.

## CURING

Cure all exposed areas of grout with Techfin Acryl Cure Curing Compound or keep saturated for at least 10 days.

## WATCH POINTS

- Temperatures of both the grout and all elements coming into contact with the grout should be in the range of 10 °C - 26 °C. Do not grout in freezing conditions. If outside the above range special information on high and low temperature grouting is available from your Technical Finishes Representative.
- Site and laboratory tests should be determined on desired placing requirements rather than strictly on the water content. This must be established prior to placing the grout.
- Always place grout from one side only. Do not pour grout from both sides as this will result in entrapment of air creating a gap (air pocket) between the underside of bedplate and grout.
- Do not use contaminated water or excess water or at a temperature that will produce bleeding, segregation delayed hardening and low strengths.

## WARRANTY

Technical Finishes products are manufactured under high quality standards and are warranted against defective materials and are sold subject to standard Terms and Conditions of Sale, copies of which can be obtained upon request. Technical Finishes deals with approved applicators and carry a back to back warranty with these clients. Technical Finishes cannot be held responsible for the workmanship in surface preparation and application of our products, it is understood that the approved contractor will guarantee such workmanship and application. It is vital that the application is done in accordance to our specification.

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