

# TECHFIN FLOWABLE GROUT

Natural Aggregate, High Strength, Non-Shrink Fluid Grout

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



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



*Reliability - Premixed thus eliminating costly on-site blending errors.*

## BENEFITS:



*Flowable grout that provides precision support under load bearing elements.*



*For use where high fluidity is required and when the principal requirement is a shrinkage free grout.*



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



*A non-shrink grout that hardens, free of bleeding, settlement or drying shrinkage, maintaining tight contact with the underside of grouted elements.*



*The grout, when mixed and placed at any consistency, fluid, damp pack or pumped, still remains free from segregation and bleeding.*



*Iron Free: A non-metallic aggregate grout used where a concrete or mortar appearance is required.*

## TECHNICAL DETAILS

Appearance	Cementitious powder
Mix ratio	4 L water / bag
Yield	13 L
Consistency	Fluid
Initial set	± 2 hrs at 20 °C
Final set	± 4 hrs at 20 °C
Service temperature	Between 5 °C – 200 °C
Shelf life	Up to 1 year when stored dry and under cover

## PACKAGING

Techfin Flowable Grout is supplied in 25 kg polywoven bags.

## COMPRESSIVE STRENGTH

	1 Day	3 Days	7 Days	14 Days	28 Days
MPa	20	40	44	47	54

The strength of Techfin Flowable 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

- Structural columns
- Machine base plates
- Crane and transporter rails
- Turbines, pumps, generators
- Anchor bolt mounting
- Dowel and steel bars
- Bridge bearings
- Underpinning and repairs
- Void filling in concrete and steel sections

## DIRECTIONS

All equipment to be grouted must be free of grease, oil and dirt and the concrete surface must be scabbled / scarified with suitable equipment, cleaned and be well saturated for 24 hours prior to grouting.

## MIXING

Mix Techfin Flowable Grout with suitable mechanical mixing equipment. Pour the grout into the demarcated area immediately after mixing. Do not mix more grout than can be used in  $\pm 30$  minutes. Once the grout has stiffened, do not re-temper by adding water. 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 this range special information on high and low temperature grouting recommendations are available from your local Technical Finishes field representative.

## CURING

Cure all exposed areas of grout with Techfin Acrylic Cure curing compounds or keep saturated for at least 10 days.

## WATCH POINTS

- Site and laboratory tests should be determined on desired placing consistency 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, excess water or at a temperature that will produce bleeding, segregation, delayed hardening and low strengths.
- Bulk Grouting - Whenever the thickness of grout is in excess of 100 mm, use Techfin Bulked Grout.

## 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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