

TECHFIN RAPID SET GROUT

FAST SETTING REPAIR GROUT

DESCRIPTION

TECHFIN RAPID SET GROUT is a preblended mix of ready-to-use hydraulic cement and proprietary admixtures producing a high performance, shrinkage compensated, rapid setting grout mortar for horizontal patch repairs of concrete in traffic areas. It non-oxidising and has no added chlorides or nitrates.

APPLICATIONS

- General repairs of concrete structures
- Cold room and cold weather repairs
- Parking decks and ramps
- Airport runways and taxiways
- Expansion joint rebuild
- Rapid machinery foundation rebuilds
- Fast repairs for coatings

ADVANTAGES

- Single component
- Ease of application
- High early strength
- Non-shrink
- Quick return to service
- High impermeability
- Non-toxic

STRENGTH DEVELOPMENT

The strength of TECHFIN RAPID SET GROUT is dependent on the water demand, curing procedure and the age of hardened grout. Never exceed the maximum water amount as stipulated. Not to be used for grouting beneath machine base plates, use TECHFIN GP GROUT. Placement must be continuous for avoiding cold joints.

TECHNICAL DETAILS

Initial set	±15 minutes
Final set	± 1-2 hour
Colour	Grey
Mix Ratio	2.5-3.0L per 25Kg Bag
Working life	10 minutes
Consistency (Mixed)	Flowable
Yield	±12.5L
Storage Life	1 year (dry, on pallets, undercover)
Packaging	25Kg Lined bags

COMPRESSIVE STRENGTH

25°C	2	3	1	7	28
	Hours	Hours	Day	Day	Day
MPa	13	24	34	48	60

DIRECTIONS

All equipment to be grouted must be free of grease, oil and dirt and the concrete surface must be scabbled, cleaned and be well saturated with water before starting. Remove all oxidation from exposed steel reinforcing. Feather edging is not desirable, a perimeter edge of 25mm is recommended for a durable repair.

Do not mix more grout than can be used in ± 10 minutes. Ensure a continuous pour of grout to avoid cold joints. Once the grout has stiffened, do not re-temper by adding water, discard unused grout. Temperatures of both the grout and all elements coming into contact with the grout should be in the range of 10°C - 26°C.

MIXING

Mix the TECHFIN RAPID FLOW GROUT with approximately 2.5L of water using a mechanical mortar mixer or pan mixer. Additional water may be added during mixing to adjust consistency. Do not exceed 3.0L of mixing water which may result in shrinkage and cracking. Addition of coarse aggregate, Stone 4-8mm, may be necessary for pours greater than 50mm.

PLACEMENT

Pour the mixed TECHFIN RAPID FLOW GROUT to full depth from one side of the repair to the other. Avoid cold joints if at all possible. Finish as desired by trowel.

SPECIAL CONDITIONS

All surfaces and materials shall be preconditioned and maintained between 2°C and 32°C. Below 2°C and down to -30°C, preheat the mixer with hot water before mixing. Warm substrates with infra-red lamps or suitable heater to ensure no ice is present. Precondition the material to has high a temperature as possible between 2°C and 32°C and use mixing water between 30°C and 35°C. Immediately cover the repair with insulating material e.g. polystyrene sheeting to protect from freezing until approximately 7MPa is achieved. Higher substrate and material temperature will result in faster strength development.

In hot working conditions, mix the product with ice cold water to allow sufficient working time as well as precondition the material to a lower temperature where possible.

CURING

TECHFIN RAPID SET GROUT should be set after 20 minutes. Wet cure the surface for 2 hours by covering with water saturated hessian or a fine mist spray.

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 100mm, bulk up the TECHFIN RAPID SET GROUT with 1:1 Stone 4-8mm.

Gauteng

Kwa-Zulu Natal

Western Cape