

Keratrade GP Grout

General Purpose Non-Shrink Class A Cementitious Grout.

Keratrade GP Grout is a high-performance, non-shrink Class A cementitious grout with controlled expansion, superior flow, rapid strength gain, and excellent durability for precise structural placements.

TDS

TECHNICAL DATA SHEET

Uses: Internal / External

Thickness: 10 - 150mm

Water: 2.7 - 4.0 Litres

COMPRESSIVE STRENGTH after 28 days 78 Mpa

FLEXURAL STRENGTH after 28 days >9.5 mpa

Clean Up: Water

App Temp: 5-30°C

Bag Size: 20KG

KEY PROPERTIES AND BENEFITS

- Class A Compliant – (General Purpose Grout to AS 1478.1 and ASTM C1107).
- Shrinkage Compensated – Controlled expansion in plastic state eliminates settlement
- High Early and Ultimate Strength – Reduces downtime and improves structural performance.
- Non-Metallic and Chloride-Free – Safe for steel reinforcement; prevents corrosion and the absence of metallic iron eliminates staining.
- Multi-Use – Can be dry packed, trowelled, poured, or pumped.
- Pumpable for large applications.
- Low Permeability – Improves durability in aggressive environments.
- Excellent Workability and Flow – Suitable for congested reinforcement or confined areas.
- Resistant to Vibration – Ideal for heavy machinery and dynamic loading applications.
- Environmentally Friendly – Low VOC formulation, easy cleanup with water.
- Versatile Application Range – Suitable for grouting from 10 mm to 150 mm in a single application.

RECOMMENDED APPLICATIONS

- General purpose grout.
- Bedding of base plates, precast concrete panels, and structural steel.
- Machine foundations and column bases.
- Grouting of anchor bolts, starter bars, and hold-down bolts.
- Filling of cavities, gaps, and base infills.
- For core filling in block work applications.
- Void filling and underpinning.
- Filling of core holes and recessed areas in panels and precast units.
- Large volume pours using pumpable mixes.
- Infill of precast joints and gaps requiring structural bonding.

PRODUCT INFORMATION

Colour	Grey
pH	12 (alkaline)
Shelf life	12 months (unopened)
Packaging	20 Kg moisture-resistant bags
Application Temperature	Min 10°C - Max 30°C
Working Time at 20°C	Approximately 30-45 minutes
Flow Life (ASTM C939)	20-25 seconds (standard cone)
Coverage (Kg/m ² /mm)	2
Expansion Characteristics	1-2 % in the plastic state
Time for expansion	Start 15 minutes, Finish 3 hours (Plastic State)
Bleed	0%
Young's Modulus	25 GPa

Item Code: GPCLASSA-20KG

Keratrade - A GreenBuilding Company
88 Sutton Street, Nth Melbourne VIC 3051

CALL: 1300 NO HARM (1300-66-4276)

ISSUE 1: 15042025

keratrade.com.au

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SPECIFICATIONS

- All grouting must be carried out using a pre-packaged, cement-based grout that is chloride-free.
- The grout must be mixed with clean water to achieve the desired consistency.
- The plastic grout must be non-bleeding and non-segregating.
- A positive volumetric expansion must occur while the grout is in its plastic state, using a gaseous expansion system.
- The compressive strength of the grout must be:
≥ 59 MPa at 7 days
≥ 78 MPa at 28 days
- Storage and placement of the grout must strictly follow the manufacturer's instructions.
- All grouting must be carried out using the product specified by Keratrade and in accordance with the manufacturer's datasheet.

SURFACE/SUBSTRATE PREPARATION

- Ensure substrates are structurally sound, clean, and roughened for bond.
- Remove all oil, grease, dust, laitance, loose material, and curing compounds.
- Saturate the surface with clean water and remove excess water just before application.
- Bolt holes and voids must be dry and free of debris.
- Pre-soaking recommended 12-24 hours before grouting in hot climates.

YIELDS			
CONSISTENCY	DRY PACK	TROWELLABLE	FLOWABLE
Water Addition (Litres per 20 kg bag)	2.7-2.9	3.0-3.4	3.6-4.0
Yield per Bag (Litres)	10.3	10.6	11
Number of Bags per one cubic metre	97	94	91
Fresh Wet Density (Kg/m3)	2250	2220	2190

SETTING TIMES AT 20°C			
Hours	DRY PACK	TROWELLABLE	FLOWABLE
Initial Set	1.5 hours	3 hours	4.5 hours
Final Set	2.5 hours	4.5 hours	6.5 hours

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APPLICATION GUIDELINES

Presoaking

- All prepared areas must be saturated with clean water prior to grouting to reduce the porosity of the substrate.
- Before grouting, ensure that all excess water is removed, all holes are free of water, and no standing water is present.
- When grouting under base plates, it is essential to provide bleed holes or venting holes to eliminate pressure build-up in confined areas.

FORMWORK

- It is essential for the formwork to be leakproof and watertight. It is recommended to use foam rubber strips or a suitable sealant (e.g., polyurethane or silicone) underneath the formwork.
- The formwork should be constructed to allow and ensure the maintenance of a grout head above the underside of the base plate.
- The formwork should allow for gravity flow of grout with a suitable grout head, ensuring continuous flow between the base plate and the concrete substrate.
- To facilitate easy formwork removal, apply form oil or release agent before grouting.

MIXING INSTRUCTIONS

- Keratrade GP Grout is a ready-to-use product that only requires the addition of water.
- Use a forced-action mixer or slow-speed drill with a spiral paddle (400–500 rpm) – Do not mix by hand.
- For detailed information on water content, refer to the table below.

Dry Pack/ Stiff Grout	2.7-2.9 Litre/20 Kg bag
Plastic/ Trowellable Grout	3.0- 3.4 Litre/20 Kg bag
Flowable/Pourable Grout	3.6-4.0 Litre/20 Kg bag

- Add the powder gradually to the water while mixing continuously.
- Cold water is recommended for best results.
- Mix for 3–5 minutes to achieve a smooth, lump-free, and flowable consistency.
- Do not add additional water, as this will cause the grout to segregate and bleed negatively affecting its performance.
- Do not retemper after initial mixing or add more water.

PERFORMANCE DATA			
AGE	COMPRESSIVE STRENGTH		
	MPa- AS 1012.9		
	Flowable	Trowellable	Dry Pack
1 day	>20	> 29	>30
7 days	>48	> 58	>59
28 days	>68	> 75	>78

PERFORMANCE DATA			
AGE	FLEXURAL STRENGTH		
	MPa- AS 1012-11		
	Flowable	Trowellable	Dry Pack
1 day	>3	> 4	>4
7 days	>6	> 8	>8
28 days	>7	> 9	>9

BOND STRENGTH ASTM C882-1987 Slant shear Method	
AGE	STRENGTH (MPa)
7 Days	>5
28 Days	>10

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APPLICATION GUIDELINES

- Application Temp: 5°C to 30°C
- Optimal Temperature Range: 18°C –25°C; Floor temperature $\geq 15^\circ\text{C}$
- Avoid application at ambient temperatures $>30^\circ\text{C}$ without precautions (e.g., cool mixing water, shading).

Keratrade GP Grout can be placed in three different ways

Dry Pack/ Stiff Grout

- Water Requirement: 2.7 to 2.9 litres per 20 kg bag
- Add enough water to achieve a stiff or dry-pack consistency.
- If the grout is too dry, it can result in inadequate cement hydration, leading to reduced strength development and insufficient curing.
- Place the grout in the required position using a tamping rod or suitable temping tool, to ensure proper compaction.

Gravity Flow Using Header Box

- Mix the grout to a flowable consistency and pour it from one side only to minimise air entrapment.
- Use a grout headbox and maintain a consistent grout head to ensure continuous flow and prevent air entrapment.
- Avoid direct vibration; do not vibrate or use a mechanical vibrator to assist flow.

Large-Volume Pumping

- Mix the grout with a forced-action mixer.
- For large placement applications, a positive displacement pump is recommended.
- For large grout pours, ensure the grout is pumped from the bottom upwards to minimise air entrapment and ensure complete void filling.
- For base plates, pump from one side and provide an air bleeder hole in the formwork or base plate to allow any pressure build-up to be released through the bleed hole.

FLOW PROPERTIES

- The grout head refers to the headbox used for a continuous pour, preventing air pockets under the base plate and improving flow.
- It is essential to maintain the headbox and grout head consistently during the grouting process.
- The nominated grout head (100mm or 250mm) ensures a continuous and consistent flow.

FLOW PROPERTIES			
GROUT CONSISTENCY	GAP DEPTH (mm)	100mm OF GROUT FLOW DISTANCE (METERS)	250mm OF GROUTFLOW DISTANCE (METERS)
FLUID FLOWABLE	10	1.9	2
	20	2	2.5
	30	2.5	2.8
	40	2.8	3
	50	3	3.2
	100	3	3.5
	150	3	3.5

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CURING

- All exposed grout surfaces must be cured following proper concrete curing practices, as proper curing is essential for the grout's strength and performance.
- Begin curing immediately after initial set.
- Cover exposed surfaces with moist hessian or apply curing membrane.
- Maintain moist conditions for at least 72 hours to maximise strength development and durability.

CLEAN UP

- Clean tools, mixers, and equipment with water immediately after use.
- Do not allow material to harden in mixers or pumps.

SHELF LIFE AND STORAGE

- Shelf life is 12 months from date of manufacture under proper storage conditions.
- Store in original sealed bags in a cool and dry area at temperature between 10°C and 35°C.
- Protect from frost, humidity, and direct sunlight.
- Once opened, reseal bags and use contents quickly.

PACKAGING 20 kg bags

LIMITATIONS

- Do not apply below 5°C or in frozen conditions.
- Do not use excess water-this will reduce final strength and may cause segregation.
- Not recommended for chemically aggressive environments without further protection.
- Not a substitute for structural concrete. Not designed for structural pours over 150mm thick unless specified.
- At very high temperatures, grout sets and cures more rapidly, which may lead to cracking and delamination.
- At low temperatures, grout setting time and strength gain are extended.
- Grout should be applied in a continuous operation to ensure the grout head is maintained.
- Do not apply grout to dry porous surfaces.

HEALTH AND SAFETY

- This product contains cement (alkaline). Avoid contact with skin and eyes.
- Use in well-ventilated areas.
- Wear personal protective equipment, including gloves, goggles, respiratory protection and protective clothing during mixing and handling.
- Do not eat, drink, or smoke while using this product.
- Remove and wash contaminated clothing before reuse.

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FIRST AID

- If eye contact occurs, rinse with water for 15 minutes and seek medical attention.
- If skin contact occurs, wash thoroughly with soap and water.
- If inhaled, move to fresh air; seek medical attention if symptoms persist.
- If poisoning occurs, contact a doctor or the Poisons Information Centre.
- If swallowed, DO NOT induce vomiting; give a glass of water and immediately call the Poisons Information Centre and a doctor.
- If you feel unwell or need advice, contact a Poisons Information Centre at 131126 in Australia or 0800 764 766 in New Zealand.

Refer to the product Safety Data Sheet (SDS) for full safety and handling guidance.

DISPOSAL

- Dispose of all waste material in accordance with local environmental regulations.
- Do not discharge into drains or watercourses.
- Empty bags may be recyclable or disposed of through municipal waste if free from residue

COMPLIANCE

Meets or Exceeds

- AS 1478.1 – Chemical admixtures for concrete, mortar and grout - Classification of Grouts (Class A)
- ASTM C1107 – Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink)
- EN 1504-3 (Class R4) – Structural Repair Mortar
- Manufactured under ISO 9001 Quality Management System

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