

**Auscon GT 90 High Performance PT Grout** is high flow, shrinkage-compensated, aluminate free, pre-blended post-tensioning cement grout. It has no added sand, making it ideal for grouting post-tensioned cables, anchors, cable tendons and re-bar. Superior early high strength gain allowing early tensioning of anchors. With modern building techniques slowly replacing the use of steelwork with other means of support, the need for a high strength pre-mix PT grout becomes ever more relevant making the Auscon GT 90 the ideal grouting product.

## Application, Advantages and Solution

- No mistakes
- Zero bleed
- Pre-mix superior pumpability
- Used for grouting PT cable & rock bolts
- Pre-mix - just add water
- High early strength gain
- Used for grouting Re-bar & anchors
- Used for grouting anchors & soil nails

## Mixing Instructions

1. Place 80% of the water into the mixing vessel
2. Slowly add 70% of the powder to the mixing vessel, and mix for 1 minute
3. Add the final 20 % of the water to the mixing vessel
4. Slowly add the remainder of the powder to the mixing vessel
5. Mix for 3 minutes or until uniform

Water Ratio Limits	Litres per 20 kg bag
Flowable	7.1 – 7.2

## Applying Mixed Material

- Do not exceed the recommended water content
- Do not mix more material than can be placed in 15 minutes

*IMPORTANT: Do not mix cementitious products if the temperature is expected to exceed 30 °Celsius, or if the change in ambient temperature exceeds +/- 12 °Celsius*

## Before Pumping Cement Grout

- Rinse the mixer and flush water through the grout lines thoroughly
- Check to ensure that all lines and hoses are clear
- All ducts, vents, outlets, and inlets should be checked for obstruction before pumping grout
- It is important to pump grout continuously to avoid the formation of air pockets and blockage

*It is important that the correct mixing equipment is used when pumping cement grouts.*

*Mixing times may vary depending on mixing speeds. For more information, Ph 1300 988 964 Email [info@auscon.net.au](mailto:info@auscon.net.au).*

## Surface Preparation

- All defective host substrate must be removed before application
- Defective material includes cracked or structurally weakened surfaces
- Host concrete must be roughened and aggregate exposed to ensure a good bond
- For chloride contaminated concrete, a concrete corrosion expert must be consulted

*All surfaces must be free from dust, oils, and surface contaminants. This may require cleaning with high-pressure water blasting or saturation to the surface using water prior to applying materials*



For More Information contact Auscon Australia

## Test Characteristic

Property	Test Method	Results
Cement	AS 3972	Complies
Chloride Content	AS 3972 Req. - Max 0.10 %	0.01 %
Sulphur SO <sub>3</sub>	AS 3972 Req. - Max 3.5%	2.4%
Bleed	ASTM C940	Zero @ 36% water
Early Expansions	ASTM C940	< 3% @ 3 Hours
Compressive Strength	AS 1478.2 (Appendix A)	Complies
Initial Set	AS 1012.18	240 minutes @ 20 °C
Final Set	AS 1012.18	310 minutes @ 20 °C
Volume Change	ASTM 1090	@ 1 Day < 0.1% - @ 28 Days < 0.3 %
Fluidity Test	ASTM C939 & PTIA W1-001	Initial < 20 Sec - 45 Mins after Mixing ± 3 Sec
Maximum Particle Size	45 Microns	
Mixing Time	3 to 4 minutes	
Yield per 20 kg (Approx.)	14 litres @ 36 % Water	
Pump Life (Approx.)	90 – 120 minutes @ 20°C	

## Compressive Strength

Minimum MPa	MPa @ 3 days	MPa @ 7 days	MPa @ 28 days	Water / 20kg
Flowable	45	70	80	7.1 – 7.2

The Data testing was conducted in a controlled laboratory environment field results may vary and is beyond Auscon Australia control

- **Storage** - Store undercover in cool, dry conditions
- **Shelf Life** - 12 Months if unopened and kept in a dry location. Best to use within 6 months from purchase date
- **Clean up** - Clean tools and surfaces using clean water within 30 minutes of applying materials or prior to curing
- **Packaging** - 20kg paper bag, 48 bags per pallet, pallet weight 990kg, (including pallet)
- **Disposal** - Keep out of sewer and stormwater lines. In the interest of the environment, please dispose of empty bag and materials as trade waste in accordance with local authority guidelines.
- **Safety Information** - The end-user of this product must first read the latest version of the Safety Data Sheets at [www.auscon.net.au](http://www.auscon.net.au) before this product can be used.

*Auscon products are manufactured using ISO 9001 Certified Processes.*

### Version – June 2020

**DISCLAIMER** - The end use of this product is beyond the manufacturers control and liability is restricted to the replacement of material proven to be faulty. The manufacturer is NOT responsible for any loss or damage arising from incorrect usage of this product. The information contained herein is provided in good faith and to best of Auscon Australia knowledge is true and accurate. No warranty is implied or given as to its completeness or accuracy in describing the performance or suitability of the product for an application.

Users are requested to check that the literature in their possession is of the latest and correct issue, Auscon is a registered trademark of Auscon Australia Pty Ltd. The recommendations to the application and use of the Auscon Australia cement products are based on materials mixed and applied under normal conditions. Site conditions and substrates will vary.

The product must be first tested to its suitability of the intended application before use. The end user of this product must first read the latest version of the Product & Safety Data Sheets at [www.auscon.net.au](http://www.auscon.net.au) before this product can be used.



For More Information contact Auscon Australia