

# GP 50 GENERAL PURPOSE NON-SHRINK GROUT

# Auscon GP 50 Product Data Sheet

## About GP 50 General Purpose Non-Shrink Grout

About: Auscon GP 50 is a new generation General Purpose Non-Shrink Grout. One component cement blended powder which requires only the addition of water to form a high strength cementitious grout that can reach up to 75MPa. It is a pump-able, shrinkage compensated product suitable for civil engineering applications. It incorporates specially graded aggregates and advanced polymers to form a non shrink cementitious grout.

## Application advantages & solutions

- Flow-able
- High-strength
- Long pump life
- Precast grouting
- General grouting
- Low permeability
- Columns and slabs
- Shrinkage compensated
- Bridge repair
- Building repair
- Rail construction
- Airport construction
- Concrete structures
- Rail repairs and shutdowns
- Dam construction and repair

## Mixing

1. Place 80% of the water into the mixing vessel
  2. Slowly add 70% of the powder to the mixing vessel
  3. Then add the final 20% of portable water to the mixing vessel
  4. Mix for 1 minute
  5. Add the remainder of the powder to the mixing vessel
  6. Mix for 3-4 minutes or until uniform
- Water may be added within the ratio limits specified below

### **Water Ratio Limits:**

- **Water Addition Dry Pack 2.8 - 3.5 - Flow-able 3.8 - 3.9 litres per 20kg bag**
- **Application Thickness - 10mm - 80mm**

## Pumping

Once the site is ready for material pumping, it is important to pump grout continuously to avoid the formation of air pockets and/or blockages.

## Surface preparation

- GP 50 may be poured or pumped into place
- All surfaces must be free from dust, oils, surface contaminants and weakened surfaces
- This may require cleaning or high-pressure water blasting
- Check formwork for leaks prior to mixing and application of grout
- Do not exceed the maximum application thickness specified in the data table for any wet layer
- Consult Auscon Australia for further information about aggregate addition for large volume pours



For More Information contact Auscon Australia

Ph 1300 988 964 | PO BOX 67 Moonee Ponds 3039  
Email [info@auscon.net.au](mailto:info@auscon.net.au) | For Safety Data Sheets go to [www.auscon.net.au](http://www.auscon.net.au)



## Test Characteristic

Standard	Product	Results
AS3972	Portland Cement	Complies
AS2758.0	Aggregates	Complies
AS1478.2 Appendix E	Early Volume Change	1.8%
ASTM C940	Bleeding	<0.02%
AS 1012.18	Setting Time	Initial set - 240 minutes @ 20 °C
AS 1012.18	Setting Time	Final set - 310 minutes @ 20 °C
AS1012.5	Fresh Wet Density	2240kg/m <sup>3</sup>
AS1478.2 Appendix A	Compressive Strength	Complies
Application Thickness	10 - 80mm	
Maximum Particle Size	0.6mm	
Pump Life	Approximately 90 minutes @ 20°C	
Water Addition	2.8 - 3.9 litres per 20kg bag	
Yield	10.9 litres per 20kg	

## Compressive Strength

	MPa @ 24 Hours	MPa @ 7 Days	MPa @ 28 Days	Water litres per 20kg
Dry pack	34	50	75	2.8 - 3.5
Trowel-able	33	45	70	3.6 - 3.8
Flowable	32	43	65	3.8 - 3.9

You should not mix or pour grouts and cementitious products if temperature is expected to exceed 30 °C Degrees Celsius and or change in temperature exceeds +/- 12 °C Degrees Celsius  
Refer to Auscon for advice and approval on pour thickness with dimensions exceeding 80 mm

## Application temperatures

- The mix water temperature should be kept as low as possible to prevent the grout from hydrating rapidly
- The higher the air temperature the faster the grout hydrates and sets

## Storage & clean up

Clean tools and surfaces using clean water prior to curing. Store in cool dry conditions. Product shelf Life is 6 months.

## Packaging

Bag: 20kg paper bag. Pallet: 48 bags per pallet. Pallet weight: 990kg (including pallet).

## Disposal

In the interest of the environment, please dispose empty bag and materials in accordance with local regulations.

Auscon GP 50 – has been independent NATA laboratory tested to validate the performance outlined in the technical data table. Auscon products are manufactured using ISO 9001 Certified Processes.

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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 our 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.



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