HS 90 ULTRA - HIGH STRENGTH CEMENT GROUT

Auscon HS 90 Technical Data Sheet

Auscon HS 90 High Strength Grout is a Class-C, non-shrink, one-component cement powder which requires only the addition of water to form a high strength non shrink cement grout. It is a pumpable and shrinkage compensated grout suitable for civil engineering applications. It incorporates specially graded aggregates and advanced new generation polymers to form a high strength grout.

Application, Advantages and Solution

- Pumpable
- High flow and high strength
- Used for grouting precast panels
- General-purpose cement grouting
- Shrinkage compensated
- Pre-mix - just add water
- Building and concrete repair
- Used internally and externally

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 to a homogenised workable mix.

Water Ratio Limits	Litres per 20 kg bag
Flowable	3.8 – 3.9

Applying Mixed Material

- Application thickness: 10 mm to 80 mm.
- Do not exceed the recommended thickness in any layer.
- Do not mix more material than can be placed in 15 minutes.
- Apply small amounts of mixed material into the surface and trowel to a smooth finish.

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 blockages.

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.

Surface Preparation

- All defective host substrate must be removed prior to 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

Certified System Quality ISO 9001 SAI GLOBAL

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Test Characteristic

Property	Test Method	Results
Cement	AS 3972	Complies
Chloride Content	AS 3972 Requirement - Max 0.10 %	0.01 %
Sulphur SO3	AS 3972 Requirement - Max 3.5%	2.4%
Bleed	ASTM C940	<0.02%
Volume Change	AS1478.2	<1.8%
Initial Set (Approximate)	AS 1012.18	90 minutes @ 20 °C
Final Set (Approximate)	AS 1012.18	300 minutes @ 20 °C
Flow Characteristics	AS 1478.2 (Appendix C)	< 45 Seconds
Compressive Strength	AS 1478.2 (Appendix A)	Complies
Maximum Particle Size	0.6 mm	
Mixing Time	3 - 4 Minutes	
Yield	10.86 litres per 20kg (Approximate)	
Pump Life	75 minutes @ 20°C (Approximate)	

Compressive Strength

Minimum MPa	MPa @ 24hrs	MPa @ 7 days	MPa @ 28 days	Water / 20kg
Flowable	40	80	100	3.8

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 the purchase date.
- **Clean up** - Clean tools and surfaces using clean water within 30 minutes of applying materials or before curing.
- **Packaging** – 1-tonne bulk bags and 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 before this product can be used.

Auscon products are manufactured using ISO 9001 Certified Processes.

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