HS 100 HIGH STRENGTH CONCRETE REPAIR

Greenz HS 100 Technical Data Sheet

Greenz HS 100 High Strength Concrete Repair is designed for all general floor and wall concrete patching repairs. HS is formulated with new generation anti- efflorescence and anti-corrosion polymers to reduce efflorescence and moisture absorption. This inhibits corrosion of reinforcing steel.

Advantages and Solution

- High Build
- High strength
- Pre-mix - just add water
- Used internally and externally
- Anti-Corrosion properties
- Anti-efflorescence properties
- Concrete repairs
- Floor and wall repairs

Mixing Instructions

1. Greenz HS 100 High Strength Concrete Repair must be mixed with a power-driven mechanical mixer, such as a mortar mixer or for smaller quantity mixing, an electric drill with a spiral mixing paddle DO NOT MIX BY HAND.
2. The water should be accurately measured and added to a suitable mixing container.
3. Place 80% of the water into the mixing vessel.
4. Slowly add 70% of the powder to the mixing vessel and mix for 1 minute.
5. Add the final 20 % of the water to the mixing vessel.
6. Slowly add the remainder of the powder to the mixing vessel.
7. Mix for 3 minutes or until uniform to a homogenised workable mix

Water Ratio Limits	Litres per 20 kg bag
Trowelable	4.0 – 4.2
Dry pack	3.0 – 3.2

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

Surface Preparation

- User to consult with a qualified engineer prior to repairing any defective, corroded & chloride contaminated host concrete substrates.
- All defective host substrates must be removed prior to applying materials. Defective material includes cracked or structurally weakened surfaces
- 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 with no standing water present prior before applying materials
- Prime the surface with Greenz CP 700 Primer is recommended.

Placement

- Organize work so that all PPE and equipment are ready before placement
- Place Greenz RS 100 Rapid Set High Strength Concrete Repair quickly to allow for maximum finishing time, apply final finish float, trowel or broom as soon as possible.
- Optimum Setting times for the Greenz RS 100 Rapid Set High Strength Concrete Repair are based on air, water and powder temperature at 22 degrees Celsius

User Responsibility

- Before using Greenz products, user to review read current technical data sheets & safety data sheets instructions and warnings. For safety data sheets Go to www.greenz.net.au, email Info@greenz.net.au or call 1300 755 827
- Use material in well-ventilated areas only, do not breath dust, avoid contact with skin and eyes
- Protect eyes with goggles or safety glasses with side shields, cover skin with protective clothing, gloves, masks and boots.

Test Characteristic

Property	Test Method	Results
Cement	AS 3972	Complies
Aggregate / Sand	AS 2758	Complies
Compressive Strength	AS 1478.2 (Appendix A)	Complies
Initial Set (Approximate)	AS 1012.18	240 minutes @ 20 °C
Final Set (Approximate)	AS 1012.18	600 minutes @ 20 °C
Maximum Particle Size	1.0 mm	
Mixing Time	3 Minutes	
Yield per 20 kg (Approximate)	11 litres per 20kg	

Compressive Strength

Minimum MPa	MPa @ 24hrs	MPa @ 7 days	MPa @ 28 days	Water / 20kg
Dry pack	20	30	45	3.0
Trowelable	15	25	40	4.0

The Data testing was conducted in a controlled laboratory environment field results may vary and is beyond Greenz Group 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** - 20kg paper bag, 32 bags per pallet, pallet weight 670kg, (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.greenz.net.au before this product can be used.

Greenz products are manufactured using ISO 9001 Certified Processes.

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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 Greenz Group 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, Greenz is a registered trademark of Greenz Group Pty Ltd.
The recommendations to the application and use of the Greenz Group 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 Technical & Safety Data Sheets at www.greenz.net.au before this product can be used.

Certified System Quality ISO 9001 SAI GLOBAL

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Greenz