

## About: Auscon HB 40 - High Build Concrete Repair

HB 40 High Build Concrete Repair is a trowelable, easy to apply product suitable for high build concrete patching. It incorporates advanced polymer additives and has ultra-high durability, is dual shrinkage compensated and high strength. It only requires the addition of water. When cured it's designed to provide compatible strength for a range of concrete and masonry repair applications.

## Application advantages & solutions

- Marine structures
- Floor repair & toppings
- Structural concrete repair
- Bridge repair
- Beam repairs
- Retaining walls

## 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 2.6 to 3.0 litres per 20kg bag**
- **Application Thickness - 10 to 80mm**

## Applying mixed material

Work small amounts of mixed material into the surface. Do not exceed thickness of 80mm in any wet layer.

## Concrete preparation

- Priming using Auscon Bond 007 Primer is recommended
- Priming by saturation to the surface using water prior to application is also acceptable
- A perimeter edge of at least 10mm depth must be provided around the area for application
- All surfaces must be free from dust, oils and surface contaminants
- This may require cleaning or high-pressure water blasting
- All defective host substrate must be removed prior to application
- Defective material includes cracked or structurally weakened surfaces
- A concrete corrosion expert must be consulted for critical projects or structural applications
- Host concrete must be roughened and aggregate exposed to ensure good bond
- Priming with epoxy primers which prevent vapour transmission is not recommended



For More Information contact Auscon Australia

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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	Drying Shrinkage	430µstrain @ 7 days, 590µstrain @ 28 days
ASTM C 1202	Chloride Ion Penetrability	13% water Trowel-able Low
AS 1012.18	Setting Time	Initial set – 8 hours Final set – 10 hours
AS1012.5	Fresh Wet Density	1900kg/m <sup>3</sup>
AS1478.2 Appendix A	Compressive Strength	Complies
Yield	12.0 litres per 20kg @ 14% water	Complies
Maximum Particle Size	1.0mm	
Application Thickness	10 mm to 80mm	
Water Addition	2.6 – 3.0 litres per 20kg bag	

## Compressive Strength

Minimum MPa	MPa @ 24 Hours	MPa @ 7 Days	MPa @ 28 Days	Water per 20kg
Trowel-able	12	32	45	2.6 litres

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

## 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 HB 40 – 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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