



STRUCTURAL24

High Strength Rapid Setting Concrete

Structural24 is a high strength, fast setting concrete with typical structural strengths of 28MPa achieved within 24 hours. Within 72 hours, strengths of up to 50MPa will be achieved. Structural24 is a specialty product particularly suited to time critical projects and where high performance concrete is required.

Structural24 should only be used where mixing, placement and finishing can be achieved within 25-30 minutes. Westbuild Structural24 is a high performance, rapid setting concrete that reaches exceptional strength in a short period of time. Structural24 is particularly suited to any concrete works requiring a higher strength and a fast set time.

Structural24 is available in a new rainproof, tear and dust resistant packaging.

Advantages

Premium Quality and Australian Made.

Fast setting and immediate strength.

High performance concrete suited to all high stress, load bearing and high performance applications.

When mixed with the correct amount of water, Structural24 will achieve strengths of up to 50MPa in 72 hours.

**** Now available in new Rainproof Packaging**



Product Attributes

Uses

Recommended For: Structural24 is ready to use and designed for structural footings, slabs, post and any construction work requiring high early strength structural concrete up to 50 MPa.

For more information on suitable uses or uses that are not listed above, please contact a Westbuild representative.

Colour

Grey

Packaging

20kg Rainproof bag (50 bags per tonne). 60 bags/pallet (1200kg).

Coverage

A 20kg bag of Westbuild Structural24 makes approximately 0.01m³ of finished concrete.

As a guide, you will need approximately 100 bags per m³.

Shelf Life & Storage

Westbuild Structural24, in its unopened packaging, can now be stored outside in any weather conditions and can also be stored for extended periods of time with its new rainproof packaging.



Technical Data

Product Identity

Form Powder
Colour Grey

Application Properties

Working Times 3-4hours support weight, be drilled or be anchored into
24 hours achieves structural strength
72 hours strengths up to 50MPa are reached

Typical Performance

Strength Typical strength of Structural24 can be up to 50MPa, depending on the slump and amount of water used.

Installation

Water Ratio

Structural24	Clean Water
20kg	1.9 – 2.0 Litres

Mixing

Enter the contents of the bag into a concrete mixer, wheelbarrow or onto a smooth non-porous surface.

Slowly add most of the required amount of water, mixing slowly and thoroughly until a workable consistency is achieved.

Add the remainder of water only if necessary to achieve a workable mix that allows the concrete to be easily placed and finished.

Avoid Excess Water, as this reduces the durability and strength of the finished concrete.

Application

Structural24 must be mixed, placed and finished within 30 minutes.

Once Structural24 begins to set the process will be rapid, ensure all tools are washed prior to the hardening process

If the product begins to harden prior to use, under no circumstance add more water to the mix as this will greatly reduce the final MPa strength of the finished concrete.

Drying Time

Concrete will reach initial set in 20-30 minutes depending on weather conditions. Final set will take several hours, and will reach full strength in 72 hours.

Cleaning

Ensure all tools are washed prior to the hardening process



Attention

Avoid excess water when mixing the product, as this will adversely affect the finished strength of the concrete.

Typical strength is 50MPa after 72 hours, when mixed to a slump of 90mm.

Application temperature is 5°C – 35°C.

If reinforcing the concrete mix with steel, ensure it is completely covered with concrete.

If the concrete mix begins to harden before placing the concrete, do not add excess water as this will adversely affect the final strength of the cured concrete.

All wet concrete is highly alkaline. Prior to using any Westbuild Concrete product with aluminium posts or poles, Westbuild recommends you confirm the suitability of use with the aluminium manufacturer and/or supplier.

Risk

All cement-based products are alkaline and can cause irritation. This product is considered hazardous according to criteria of Work Safe Australia. A dust mask should be worn when handling the material. Continuous or extended contact with this product may cause irritation, as well as respiratory issues such as bronchitis or silicosis. Contact with the eyes and repeated and prolonged skin contact should be avoided.

Safety Precautions

A dust mask should be worn when handling the material. Continuous or extended contact with this product may cause irritation, as well as respiratory issues such as bronchitis or silicosis. Contact with the eyes and repeated and prolonged skin contact should be avoided.

Technical/Safety Data

TECHNICAL DATA SHEETS (TDS) AND SAFETY DATA SHEETS (SDS) are available on request and should always be referenced before handling this product and before the commencement of any works. A WESTBUILD Representative is always available should you require further information. Visit our website for further information on the use of this product and suitability for your application.

Related Products

Westbuild General Purpose Concrete
Westbuild Kwikset™ Concrete
Westbuild Concrete40™

It is the responsibility of the user to ensure that products are used in accordance with the Westbuild Products Pty Ltd instructions for use, and Australian Standard procedures in applications for which they are intended. Westbuild Products Pty Ltd and its associated companies cannot guarantee and are not liable for the use of their products outside of Australian Standards guidelines and the Westbuild Products Pty Ltd instructions for use. The technical details and recommendations contained in this data sheet are given in good faith and represent the best of our knowledge at time of printing. Freedom from patent restrictions should not be assumed.

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