

Structural Repair

High Strength Mortar 50MPa+

Westbuild 8kg Structural Repair is a medium weight, shrinkage compensated repair mortar. It is a high performance compound for extremely durable repairs where abrasion resistance is required. Ideal for structural repairs to spalled and damaged concrete in vertical, horizontal or overhead surfaces.

Westbuild Structural Repair has a high compressive strength, is non-corrosive to steel reinforcement and dries to a grey colour. Reaches a final strength of greater than 50MPa.

Advantages

- Extremely Durable
- Shrinkage Compensated
- High Compressive Strength
- Abrasion Resistant
- Non-Corrosive
- Convenient 'Bag in a Bucket'
- 10mm – 50mm in a single application



Bag in
a Bucket

Product Attributes

Uses

Recommended For **Highly Durable and Structural Repair Work**

Structural repairs to spalled and damaged concrete

Vertical, horizontal or overhead surfaces.

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

Performance

Civil, Commercial and Industrial.

Yield

The approximate yields are obtained if mixed in accordance with the recommended procedures and accurately measured water content.

A 8kg pail of Structural Repair with 1.1 – 1.3 litres of water will yield approximately 4 litres.

Colour

Grey



Packaging 8kg Westbuild Pail – Rainproof ‘Bag in a Bucket’.

Shelf Life & Storage Westbuild Structural Repair is packaged as a ‘bag in a bucket’ and has an extended shelf life. The product can be stored outdoors in the original, unopened packaging.

Technical Data

Product Identity

Form Powder
Colour Grey

Compressive Strength

Age	Compressive Strength
3 days	> 35 MPa
7 days	> 43 MPa
28 days	> 50 MPa

*Tested in accordance with AS1012.9 at 20°C
Method for the determination of the compressive strength of concrete, mortar and mortar specimens.
The above results are tested by a NATA accredited laboratory, in the plastic consistency.*

Installation

Surface Preparation A properly prepared substrate is essential prior to mortar placement to achieve optimum and maximum performance. All surfaces must be clean, free from contaminants including dust, oil, grease and curing compounds.

Wetting

The surface should be wetted with water to ensure no dusty surfaces remain. Structural Repair should be applied to a damp surface to ensure good bonding.

Formwork

Formwork needs to be constructed to allow rapid and continuous mortar placement. The construction of formwork should allow gravity flow of mortar and constructed to be leak proof and water tight.

Mixing

Westbuild Structural Repair may be mixed by hand.

Always add the measured quantity of water to the mixing vessel first, slowly adding powder and mixing until a uniform, homogenous consistency is obtained.

Discard any unused mortar that has stiffened or hardened and do not add more water than the recommended amount as this may cause segregation and will compromise the final strength and performance of the product.

Note: When mixing - in all cases Structural Repair must be added to water.

Consistency

Westbuild Structural Repair, when mixed well, will provide a trowellable consistency.

Consistency	Structural Repair	Clean, potable water
Trowellable	8kg	1.1 – 1.3 litres

The addition of water to the mortar after it has started to stiffen is not recommended and the product should be discarded.



Application

NOTE: Sufficient preparation, labour and mortar must be present to ensure continuous placement within a single pour.

Placement and Layer Thickness

Layer thickness, within a single pour:	Minimum	10mm
	Maximum	50mm

Application Temperature

Temperature	Minimum	5°C
	Maximum	35°C

Low Temperature Application	High Temperature Application
In cold conditions down to 5°C, normal precautions for winter working with cementitious materials should be adopted. The material should not be applied when the substrates or air temperature is below 5°C.	At temperatures above 35°C, the material should not be used as this will cause premature setting and may make pouring and applying the product difficult.

Pot Life

30 minutes (@ 20°C ambient temperature)

The time the product can be placed depends very much on the product temperature and on the amount of mixing water added. The lower the temperature, the longer the setting time.

The pot life above should be regarded as a guideline. The lower the temperature the longer the setting time, the less water added the shorter the setting time.

Curing

Excessive moisture loss should be prevented whilst curing. It is important to cover the mortar with wet hessian or plastic sheeting to keep the newly poured mortar fully protected from drying winds and direct sunlight.

Continue this process for a minimum of 7 days as it is vital for the curing process in order to achieve optimum strength development.

Cleaning

Product should be removed from tools, mixing vessels and all equipment whilst the material is still wet.

Attention

Do not mix more than can be used within the working time of the product. Setting will begin after approximately 15 minutes.

Do not add additional water if the mixed product has begun to stiffen, and do not mix more water than specified. Water should be accurately measured, and discard any unused mortar that has stiffened or hardened.

Do not apply in layers less than 10mm in depth

Excessive moisture loss should be prevented whilst curing.

In lower temperatures, the cure rate will be dramatically reduced.

In high temperatures, it is advisable to use water below 20°C when mixing and the product should be kept away from direct sunlight with the installation area to be temporarily shaded.



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 in its dry form. 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. Refer to the product SDS for full product details, available on the Westbuild website.

Safety Precautions

A dust mask should be worn when handling the material. 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

Bulk Fill Mortar – 8kg
Construction Grout – 8kg
Construction Grout – 20kg
Concrete Repair Fairing & Smoothing Mortar 8-5mm – 8kg
Concrete Repair High Build Mortar 10-100mm – 8kg
Kwikcrete™ Fast Setting Mortar – 12kg

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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