



GREY CEMENT

General Purpose

Westbuild Grey Cement is ideal for general repair work and maintenance around the home or building site, including concreting, paving, bricklaying, patching and rendering. Can be used in mortar, render, concrete.

Conforms to Australian Standard 'AS3972 – Portland and Blended Cement'.

Advantages

Premium Quality and Australian Made

Easy to Use

Convenient packaging – available in 20kg and 6kg DIY bags



****20kg available in FlexiPack™ Rainproof Packaging**

Product Attributes

<u>Uses</u>	Concreting Paving Bricklaying Patching Rendering For more information on suitable uses or uses that are not listed above, please contact a Westbuild representative.
<u>Colour</u>	Grey
<u>Packaging</u>	20kg Flexipack bag (50 bags per tonne.) 56 bags per pallet (1120kg). OR 6kg DIY Poly-lined Paper Bag. 112 bags per pallet. 56 part pallet.
<u>Coverage</u>	See "Mix Ratio" sections in this document.
<u>Shelf Life & Storage</u>	Westbuild Grey Cement, in 20kg FlexiPack™ bags can now be stored outside in any weather conditions and can be stored for extended periods of time. Westbuild Grey Cement, in 9.5kg DIY poly-lined paper bag should be stored for up to 6 months in a dry environment, off concrete floors in the original unopened bag.



Technical Data

Product Identity

Form	Powder
Colour	Grey

Installation

Preparation

Before commencing, sufficient materials should be gathered. See “Mix Ratio” tables below to ensure you have enough materials to complete your project.

Mixing (Mortar Mix)

Add Grey Cement powder (in the required amount, as per mix ratio tables below) to selected sand/aggregates and mix together and dry-blend in a mixing vessel or smooth, non-porous surface.

Add lime for workability for brick/block repairs, in the required amount, as per mix ratio tables below.

Gradually add water until the required consistency is achieved (do not add too much, or over-water the product).

Mix thoroughly until a homogenous mix is achieved.

If the product begins to harden prior to use, do not add more water to the mixture as this will adversely affect the final performance of the cured product. Always discard the hardened product and mix a new batch.

Cleaning

Clean all tools and equipment immediately whilst the material is still wet.

Mix Ratio – Concrete Guide

CONCRETE GUIDE – HOW MUCH DO I NEED?

Before commencing, sufficient materials should be stockpiled. To calculate quantities required, multiply length x width x depth. Example: 10m (l) x 15m (w) x 0.75m (d) = 10 x 15 x 0.75 = 11.25m. Always allow 10-15% waste.

Application	MIX BY VOLUME All ratios are calculated by volume - use a measuring bucket, not a shovel.			MATERIALS BY RATIO		
	Westbuild Grey Cement	Concrete Sand	Coarse Aggregate	Westbuild Grey Cement (20kg Bags)	Concrete Sand (m ³)	Coarse Aggregate (m ³)
High Structural strength concrete for thin reinforced walls, slender reinforced columns, fencing posts, heavy-duty floors.	1	1.5	3	21	0.5	1
Commonly adopted mixture for reinforced concrete beams, floor slabs, driveways and paths.	1	2	4	16	0.5	1
Footings for domestic buildings and walls.	1	2.5	5	14	0.5	1

Note: 1. All above mixes yield an amount of concrete slightly more than the quantity of coarse aggregate in the mix 2. All sand should be clean, well graded, free from excessive clay, organic material and fine silts. 3. Above estimates exclude wastage factor. 4. Above information is in accordance with the manufacturers recommendations using Westbuild Grey Cement 20kg bags.



Mix Ratio – Render Guide

RENDER GUIDE					
The following calculations are based on 1.2m ³ of damp sand for each 1m ³ of render.					
	MIX BY VOLUME All ratios are calculated by volume - use a measuring bucket, not a shovel.			MATERIALS BY RATIO	
	Westbuild Grey Cement	Hydrated Lime	Sand	Westbuild Grey Cement (20kg Bags)	Hydrated Lime 20kg
Internal Walls					
Floating / Sand Finish	1	1	7	10	4
Cement Dado / Glass Faced Render					
Base Coat	1	0	3	30	0
Finish Coat	1	1 (Lime Putty)	1.5	8	8 (Lime Putty)
External Walls					
Sand Finish / Bag Wash	1	0.5	5	14	4
Two Coat Finish (assumes top coat thickness 3mm)					
Base Coat	1	1	5	12	5
Top Coat	1	1	6	6	2
Floor Tiling					
Tile Screed (10mm)	1	0	4	16	0

Note: 1. Clean, sharp, well-graded sand, free from loam, clay and impurities should be used. 2. Hydrated Lime may contain air entraining agents. The use of additional air entraining agent is not recommended. The presence of foreign matter will weaken the render and affect its setting time. 3. To help reduce colour variations to sand finished renders, avoid multiple sand deliveries, or sand from different locations.

Mix Ratio – Mortar Guide – AS3700

MORTAR GUIDE – AS3700

The following calculations are based on approximately 0.6m³ of damp sand, which will lay approximately 1,000 standard bricks. (All ratios are calculated by volume - use a measuring bucket, not a shovel).
Std Brick size 230L x 110W x 76H.

Classification AS 3700	Brick Type	Mortar Colour	Westbuild Grey Cement	Hydrated Lime	Sand	Bags Per 1000 Bricks
M4 Retaining Walls/Below ground walls/External and above ground walls (within 1km of coastline)/Walls in Industrial environments	Clay(solid)/ Clay(cored)/ Concrete	Grey	1	0.5 OR 0.25	4.5	8 X Grey Cement 20kg 1.25 x Hydrated Lime 20kg
		Grey	1	0.25	3	11 x Grey Cement 20kg 1 x Hydrated Lime 20kg
M3 External above ground walls (1km - 10km from coast, excluding retaining or below ground walls)/Walls in contact with fresh water	Clay(solid)/ Clay(cored)/ Concrete	Grey	1	1	6	7 x Grey Cement 20kg 3 x Hydrated Lime 20kg
M2 External above ground walls (further than 10km from coast, excluding retaining or below ground walls)/internal above ground walls (non-load bearing)	Clay(cored)/ Fastwall/ Verticore/ Maxibrick/ Long Reach/ Speedy/ Natural/ Limestone	Grey	1	2	9	6 x Grey Cement 20kg 3 x Hydrated Lime 20kg

Note: 1. The Building Code of Australia applies to building regulations in Western Australia and provides that its mortar requirements are satisfied if the mortar complies with Australian Standard AS3700 Masonry Structures. It is the responsibility of the builder to consult AS3700 to ensure that the appropriate mortar class for the exposure classification is chosen. 2. All mortars must be mixed and placed as per AS3700 Masonry Code. 3. Clean, sharp, well graded sand, free from loam, clay and Impurities should be used. 4. Hydrated Lime may contain air entraining agents. The use of additional air entraining agent is not recommended.



Attention

Avoid excess water when mixing the product, as this will adversely affect the final strength of the product. Never add water to mixed product that is beginning to harden, as this will adversely affect the final strength of the cured product.

Application temperature is +5°C - 35°C

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. Contact with the eyes and repeated and prolonged skin contact should be avoided. Use only in well ventilated areas and always avoid contact with skin and eyes. Full PPE must be worn when handling the product in its dry or wet form.

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 Range

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.

WESTBUILD CONTACT DETAILS
PHONE: 08 9309 2029
FAX: 08 9302 1129
Email: technical@westbuildgroup.com