



INNOVATIVE BUILDING PRODUCTS

How to Choose the Correct Concrete



What is Concrete?

- A proportioned blend of: Sand, Aggregate (blue metal) and Portland Cement
- Depending on the concrete mix, other additives can also be included
- Once dried, the strength of concrete is measured in MPa, the higher the MPa the stronger the concrete

How much Concrete will I require?

- Generally 1 x 20kg bag when mixed with water will equal approximately 0.01m³
- This equates to just over 100 bags per cubic metre

How long does Concrete take to dry?

- Typical concrete will begin to harden in 4-5 hours and be of reasonable strength in 24-72 hours
- At this time you can walk on it but not park a car
- Final strength is achieved after 28 days, unless using specialised concretes with high early strengths, such as Westbuild Structural24

Can I lay my own concrete successfully?

- Yes and achieve a strong, long lasting finish
- You will need to ensure you have all tools required and sufficient materials and labor to ensure your Concrete is placed and finished correctly

What if I have a question?

- Please call Westbuild on 08 9309 2029

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Kwikset

- Ideal for setting posts in concrete
- Works for all post types including timber and steel
- Non-structural use
- Starts to set within 15 mins
- Final strength after 7 days
- **Typical strength up to 15MPa**



GP Concrete

- Ideal for any general concrete repairs or works
- Paths, walkways, shed floors and all other uses
- Can be used in structural applications
- Reasonable strength in 2-3 days
- Final strength in 28 days
- **Typical strength up to 25MPa**



Concrete40

- Ideal for high strength concrete requirements
- High wear characteristics
- Typically used where high load anchoring or fixing is required
- Initial set 3-4 hours
- Final strength in 28 days
- **Typical strength up to 40MPa**



Structural24

- Fast Setting Rapid Strength Concrete
- Structural strength in 24 hours
- Used for footings, anchoring where high early strength is required
- Initial set 30-40 minutes
- Extremely high strengths reached in 72 hours
- **Typical strength up to 50MPa**

Typical Properties

Application	Kwikset	GP Concrete	Concrete40	Structural24
New Concrete				
Installing posts	✓✓✓	✓✓	✓✓	✓
Concrete Footings		✓✓	✓✓	✓
Paths & Walkways		✓✓✓	✓✓✓	✓
Repairs				
Paths		✓✓	✓✓✓	✓
House Slab		✓✓✓	✓✓	✓
Warehouse floor			✓✓	✓✓✓
Commercial & Industrial				
High abrasion resistance		✓	✓✓	✓✓✓
Increased compressive strength		✓	✓✓	✓✓✓
High Load Anchoring			✓✓	✓✓✓
High Early Strength	✓			✓✓✓



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How to Concrete Slabs and Paths with Westbuild Concrete



Ideal for

- Paths, walkways
- BBQ base, shed floors

How much to use

- Length x width x height = m³
- 1x 20kg bag = 0.01 m³
- 55x 20kg bags = 0.5 m³
- 110x 20kg bags = 1.0 m³

Tools you will require

- Bucket
- Shovel
- Wooden or steel float
- Level
- Long straight edge or box rule
- Forming timbers (if required)



Step 1 – Prepare

- Measure and plan where the concrete is to be placed prior to any works
- Ensure you have slightly more than sufficient material quantities to be used and you have adequate forming materials if using

Step 2 – Dig the hole

- Prepare the ground for the concrete. If setting the slab in the ground all sides should be a clean and sharp as possible. If using boards to form the sides they should be fixed in place with pegs on the outside
- If using reinforcing bar or mesh, ensure it will sit within the concrete at the desired height by using bar or mesh chairs



Step 3 – Mix the concrete

- Add the concrete to a wheelbarrow or mixer
- Following bag directions, add the appropriate amount of water and mix until well combined
- Do not add excess water as this will reduce the overall strength of the final concrete



Step 4 –Place and finish the concrete

- Pour the mixed concrete to the area
- Distribute the concrete into the formed area, then using a straight edge - screed to the desired height and falls
- If using in a small area use a suitable trowel
- Finish the surface of concrete with wooden or steel float or other tool for your desired finish

How to Fix a Post in Concrete with Westbuild Kwikset™



Ideal for

- Pergola – timber and steel posts
- Fencing – pool, boundary and dividing fence

How much is required

- 1 x 20kg bag = 0.01 m³
- 55 x 20kg bags = 0.5 m³
- 110 x 20kg bags = 1.0 m³

Tools you will require

- Bucket + clean water
- Shovel
- Westbuild Metal Pak
- Spirit level
- Rod (for mixing concrete in the hole)



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Step 1 - Prepare

- Measure and plan where the posts are to be placed prior to any works
- Mark out the ground where the posts is to be placed following your plans

Step 2 – Dig the hole/s

- Dig the appropriate size hole for the post. The ideal size is twice as wide as the diameter of the post and deep enough to allow minimum ¼ of the post to be in the ground



Step 3 – Install post and concrete

- Thoroughly soak the hole to ensure the soil will not soak up the water required to set Kwikset concrete
- Place 6 inches of Westbuild Metal Pak at the bottom of the hole and then place the post
- Place the required amount of water in the hole
- Open the bag of Kwikset and slowly pour contents around the post



Step 4 – Setting the concrete

- Work the water into the dry mix with a 'rodding' action and ensure the Kwikset is evenly dispersed
- Ensure the post is straight and brace in position whilst the Kwikset or concrete is allowed to set



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How to Lay Bricks with Westbuild Mortar



Ideal for

- Above ground structures more than 1km from coastline - M3 Classification
- Small brick walls and paving headers
- Letter boxes and all brick built structures
- Ready to use straight from the bag

How much to use

- 1x 20kg bag is sufficient to lay approximately 20 standard bricks
- If using as a single coat render, 20kg will cover 1m² at 10mm thick



Tools you will require

- Bucket
- Shovel
- Brickies trowel, finishing tools
- Wheelbarrow, mud board or mixer
- Spirit level and string line
- Wooden float or steel trowel if rendering

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Step 1 – Prepare

- Measure and plan the quantity or where the mortar is to be used prior to any works
- Ensure you have adequate spare material as some wastage will occur if laying for the first time

Step 2 – Mix the mortar

- Empty contents of bag into the barrow or onto the non-porous mixing board
- Slowly add water until a workable mixture is achieved
- Westbuild Mortar is ready to use from the bag as it already contains builders lime



Step 3 – Building the wall

- When laying bricks, first lay a trowel length of mortar where the brick is to be placed. Using the tip of your trowel, work a V shape through the centre to ensure mortar reaches the edge of the brick
- As each brick is laid ensure you 'butter' the end
- A string line properly set will ensure a straight wall is built, using a spirit level will also ensure your wall stays level and true



Step 4 – Important Information

- Always check with your local council to comply with regulations
- Brick ties and building straps should be used where required
- Clean as you go. It is easier to clean tools and finishing tools after it firms but before it dries



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Westbuild Structural24



Ideal for

- Concrete placement, repair and reinstatement
- Wherever faster setting, high strength concrete is required
- Commercial and industrial applications where up to 50MPa is required

How much to use

- Length x width x height = m³
- 1x 20kg bag = 0.01 m³
- 50x 20kg bags = 0.5 m³
- 100x 20kg bags = 1.0 m³

Tools you will require

- Bucket
- Shovel
- Wooden Float
- Long straight edge or box rule
- Forming timbers (if required)

Please turn over for full application details



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Step 1 – Prepare

- Measure and plan where the concrete is to be placed
- Structural24 is fast setting and may require smaller batch's to be made, ensure you allow for this

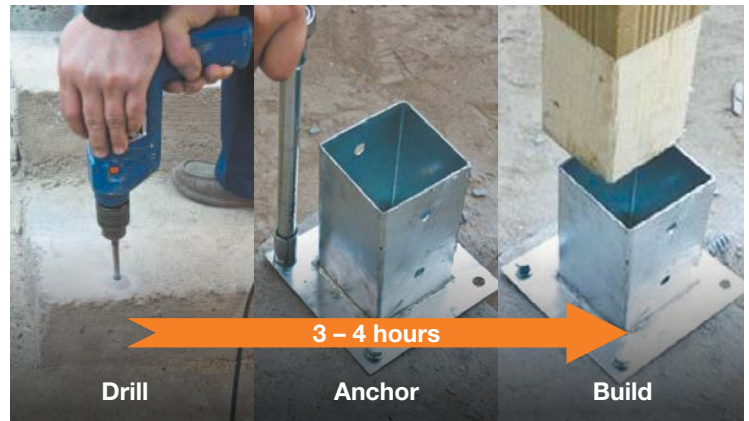
Step 2 – Mix and Place the Concrete

- Empty contents of bag into the barrow or onto the mixing board
- Slowly add water until a workable mixture is achieved
- Do not add additional water than stated as it will reduce the overall strength once dry
- **IMPORTANT - Mix, place and finish the concrete within 30 minutes.**



Step 3 – Drilling, Anchoring and Building

- Following the approximate setting times listed on the packaging, you can begin to apply a loading to and build upon Structural24 much earlier than standard concrete



Step 4 – High Strength and Abrasion Resistance

- As Structural24 begins to dry it will gain strength rapidly
- After 72 hours, typical strengths of 50MPa can be achieved



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