

Concrete Mix

Boral Cement's Blue Circle® Concrete Mix is a proportioned blend of dry aggregate, graded sands and cement suitable for all general purpose concrete applications where a quality concrete is required.

FEATURES AND BENEFITS

- Used by both the professional and the home handy person.
- A high cement content for increased strength, durability and workability.
- Good finishing properties.

TYPICAL APPLICATIONS

General smaller concreting jobs such as foot paths, slabs, footings, garden edges, etc.

Where a more structural concrete is required you may need to add neat cement to the premixed bag. As a guide, an addition of 1kg to 1.5kg per 20kg bag of Concrete Mix can be used to achieve about 32 MPa concrete (under normal conditions).

PREPARATION

Formwork made from 25mm-thick timber is commonly used to mould the concrete. Use a builders square to ensure that corners are at right angles. Lightly oil the insides of the boards before mixing and laying the concrete.

Lower the formwork on one side to allow a slight fall for water run off when doing pathways and slabs.

MIXING

Use either a wheelbarrow with a 'larry' hoe, shovel or mechanical mixer. Add about 75 per cent of the water to the mixing vessel and slowly add the contents of the bag. Add sufficient remaining water gradually to achieve a workable mix. As a guide, use about 2 litres of water per 20kg bag.

Do not over water unless you need to achieve a sloppy mix. The less water the stronger the concrete.

CAUTION ON HOT WEATHER

It is advisable to delay concreting until weather cools down below 32 degrees. High temperatures can dramatically affect the properties of concrete by drying out too rapidly.

PLACEMENT OF CONCRETE

Prior to placement, lightly soak the base with water to prevent excess moisture loss. The base should be compacted (crushed rock or sand). Placement can be done by shovel ensuring all corners are reached. For larger jobs a poker vibrator may be needed to ensure no entrapped air is in the mix.

Use a straight edge to screed off the concrete to the height of the formwork. Float or trowel the concrete as soon as possible after screeding without overworking the surface. Wait until all excess bleed water has dissipated and then finish off.

Use a jointing tool to cut joints every 1-2 metres. Use an edging tool to smooth off edges and prevent chipping. Smooth finish with a steel trowel or non-slip finish with a shelling trowel or broom finish.

CURING

Fresh concrete must be protected from loss of moisture as soon as the surface is firm. Plastic sheeting can be used, also hessian kept damp at all times laid over the concrete.

Curing should be done for a minimum of seven days and longer under certain conditions.

Keep formwork in place whilst curing to protect the edges.



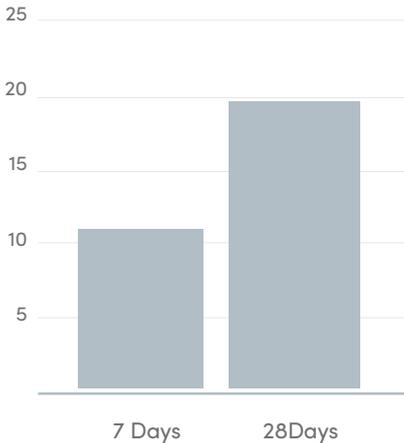
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YIELD

One 20kg bag will cover an area of 1.1m² to a depth of approximately 10mm. Or 108 x 20kg bags equates to one cubic metre of mixed concrete.

TYPICAL PRODUCT PERFORMANCE

Compressive Strength (MPa):



AVAILABILITY

Concrete Mix comes 20kg plastic lined, multi-walled paper sacks, and small handy 10kg plastic bags.

CLEAN UP & STORAGE

Clean all tools and equipment with water promptly after use.

Clean up by vacuum or using wet methods. Avoid dry sweeping. Contact with air and moisture will cause hydration. Store in a cool dry place and seal any unused material. It is recommended to dispose of any cement-based products more than 12 months old.

SAFE HANDLING

This product contains cement chemicals including Respirable Crystalline Silica and trace amounts of hexavalent chromium.

Avoid generating dust wherever possible. Use dust capture or otherwise use in well ventilated areas.

When cutting or abrading concrete keep it wetted with water to avoid creating hazardous dust. Use personal protection equipment against exposure and alkali burns.

The use of goggles, well-fitted P2 dust masks or better, barrier creams and rubber gloves is recommended. Wash product off unprotected skin immediately with water.

Manual handling of bagged products without proper training may result in personal injury. Wherever possible you should use mechanical aids or share the load with another person.

For further safety information consult the Safety Data Sheet for the product available at www.boral.com.au/cement

BAGS REQUIRED

Square metres	Number of 20kg Bags	
	75mm deep	100mm deep
10	82	108
9	74	98
8	66	88
7	58	76
6	50	66
5	42	54
4	34	44
3	26	34
2	18	22
1	10	12

PRODUCT SUPPORT

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Product Support

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www.boral.com.au

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