

TECHNICAL DATA SHEET EASY MIX QUICK SET HIGH STRENGTH CONCRETE



DESCRIPTION

Easy Mix Quick Set High Strength Concrete is a premixed, bagged product containing accurately weighed Portland cement, specially graded coarse and fine aggregates, and quality admixtures.

Easy Mix Quick Set High Strength Concrete includes a non-chloride accelerator which ensures a far more rapid setting time compared to standard concrete.

Because of its rapid setting qualities and overall performance strength, Easy Mix Quick Set High Strength Concrete is ideal for the following applications:

- Large sized posts
- Fence corner posts
- Gate posts
- Structural supports.

PRODUCT PACKAGING

Easy Mix Quick Set High Strength Concrete is available in 20kg bags.

PRODUCT COVERAGE

Each 20kg bag contains approximately 10 litres of concrete.

$$\begin{aligned} 1 \quad & \times \quad 20\text{kg Bag} \quad = \quad 0.01\text{m}^3 \\ 100 \quad & \times \quad 20\text{kg Bags} \quad = \quad 1.0\text{m}^3 \end{aligned}$$

Note: Use approximately two 20kg bags per post hole.

APPLICATION INSTRUCTIONS

DRY METHOD

- 1 Prepare post holes and brace the posts in position.
- 2 Thoroughly wet the hole so that the hole does not soak up the water required for the Easy Mix Quick Set High Strength Concrete mix.
- 3 Add the required amount of Easy Mix Post Mix Concrete into the hole around the post. DO NOT MIX. Ensure the post is level.
- 4 Pour the required volume of water on top of the concrete (1x 20kg bag requires approximately 2 litres of potable water).
- 5 Allow to cure overnight before continuing with the next construction stage.

WET METHOD (for greater compressive strength)

- 1 Hole width should be twice the diameter of the post and the hole depth is one third of the post length. Add 100mm of the dry concrete mixture to the base of the hole before placing post.
- 2 Dampen the wheelbarrow or mixing board before adding dry mixture as a mound, then slowly add approximately 2.5 litres of water to the contents of one 20kg bag. (Note: forming a void in the dry mixture will help retain the water in the mix when it is added). Quickly mix the bag contents and water with a shovel by turning the mixture over on itself until it appears uniform in colour. This initial mixing process should take no more than 1-2 minutes. Only mix sufficient material that can be placed within 10 minutes of mixing.

- 3 Insert post into hole. If needed, use clamps and timber to brace posts in position, making sure they are level. Place the wet mixture into the hole around the post.
- 4 Tamp the mix to make sure the concrete is firmly packed.

Note: Due to the fast setting time of Easy Mix Quick Set High Strength Concrete, if the product is mixed manually in a wheel barrow or on a flat surface, use 2.5 litres water per 20kg bag, and only mix what can be installed within 10 minutes of mixing.

AMBIENT TEMPERATURE

Warm and/or humid environments will reduce the work time of this product. To complete, keep the material cool and use cold or chilled water when mixing.

This product should not be used in ambient temperatures below 7°C.

HOLE SIZE

Width = 2x width or diameter of the post
(100mm x 100mm post requires a 200mm x 200mm hole)

Depth = 1/3 of the length of the post
(2m post length requires hole depth of 600mm)

Note: Some structures may need formal approval – see local council for details.

CLEAN UP

Clean all surrounding areas and surfaces immediately with water, ensuring no waste or contaminated water ends up in drains or waterways.

TECHNICAL PERFORMANCE

Criteria	Avg. Results
Water added per 20kg bag	2.5 litres
Consistency (Slump)	80mm
Plastic Density	2230kg/m ³ (approx)
Volume Yield	0.01m ³ per 20kg bag

Compressive Strength (AS1012.2 : 1994)

1 day	> 5MPa
7 days	> 20MPa
28 days	> 32MPa

COMPRESSIVE STRENGTH

The compressive strength results quoted are achieved by crushing 100mm diameter x 200mm high concrete cylinders of this product that have been homogeneously mixed and then cured in controlled laboratory conditions for 28 days.

Please note that variations to be nominated maximum compressive strength may occur due to environmental factors, mix ratios, ground conditions and placing techniques.

When maximum strength achieved is absolutely imperative agitator is recommended.

PRODUCT STORAGE

Easy Mix Quick Set High Strength Concrete will keep for up to six months if kept in a dry store, off the ground and providing the bags remain sealed.

High temperature and high humidity conditions may reduce the storage life of the product.

PRECAUTIONS FOR USE

Easy Mix Quick Set High Strength Concrete contains cement powders which can be harmful to the skin.

During use, avoid inhalation of dust and contact with the skin and eyes. Wear suitable clothing, gloves, eye protection and respiratory protective equipment.

If contact with the skin occurs, thoroughly clean the area with plenty of fresh water and soap. In case of contact with the eyes, rinse with plenty of fresh water and seek medical advice.

If swallowed, seek medical attention immediately. Do not induce vomiting.

For further information consult the Material Safety Data Sheet and read the product label carefully before use.

Material Safety Data Sheets are available at www.easymixsales.com.au or by phoning 1800 077 744.

PLEASE NOTE

The information given in this data sheet is based on our current knowledge of the product when properly stored, handled and applied. We cannot guarantee that the product will be suitable, effective or safe when used for any purpose other than its stated uses.

To the extent that it is lawful, we exclude warranties implied by law and limit our liability to the cost of replacing the product. We accept no responsibility for loss or injury caused by improper use, incompetent preparation, inexpert or negligent application, or ordinary wear and tear.

Service or advice given by our staff should not amount to responsibility for the project - since the owner, or their contractor (and not River Sands), is responsible for procedures relating to the application of the product.



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