

# TECHNICAL DATA SHEET SUPER STRENGTH CONCRETE



## PRODUCT DESCRIPTION

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

Due to its strength qualities, Super Strength Concrete is ideal for the following applications:

- Commercial slabs
- Reinforced foundations
- Residential driveways

## PRODUCT PACKAGING

Super Strength Concrete is available in 20kg bags.

## COVERAGE RATES

Each 20kg bag contains approximately 10 litres of Concrete.

1x	20kg Bag	=	0.01m <sup>3</sup>
99x	20kg Bags	=	1.0m <sup>3</sup>

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

## APPLICATION INSTRUCTIONS

1. Make sure your project is properly laid out with all the necessary tools.
2. Determine how much concrete you require – from this, calculate the volume of water you will need.
3. One 20kg bag of concrete requires 1.9 Litres of clean water. Do not exceed water requirements.
4. Add the water to your mixing vessel (wheel barrow, bucket or cement mixer) first. Add approximately half of the concrete and mix until fluid.
5. Add the remainder of the concrete and mix until a stiff consistency is achieved. Do not add water after the concrete has been mixed – this will reduce the strength of the concrete.

## HANDY HINTS

### Mixing

Add water gradually and mix thoroughly to a stiff consistency. Do not add water after the concrete has been mixed, as this will reduce the strength of the concrete.

### Bonding

Ensure that the adjacent surface is clean and clear of materials that could inhibit bonding (e.g. oil, dirt, loose debris, determination). Make sure that the area has been soaked with water (no ponding water to remain) prior to placement.

### Placing

Remove air bubbles by tamping the wet mix with a shovel, or tapping the boxing with a hammer.

### Finishing

Leave the concrete to stand for approximately one hour before towelling to the desired finish.

### Curing

Keep concrete covered for 24 hours to prevent it from drying out. If the concrete dries too quickly the desired strength will not be achieved. A curing membrane is highly recommended.

## 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	AVERAGE RESULT
Water Added per 20kg	1.9 litres
Consistency (slump)	125mm
Plastic Density	2400kg / m <sup>3</sup> (approx)
Volume Yield m <sup>3</sup>	9 litres (approx)

### COMPRESSIVE STRENGTH (AS1012.2 : 1994)

8 hours	20MPa
7 days	40MPa
28 days	> 40MPa

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## COMPRESSIVE STRENGTH

The compressive strength results quoted are achieved by crushing 50mm cubes 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

Super 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

Super 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 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, inexperienced 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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