

# TECHNICAL DATA SHEET EASY MIX GB BUILDERS CEMENT



## PRODUCT DESCRIPTION

Easy Mix GB Builders Cement is a multi-purpose blended cement which complies with the requirements of Australian Standard AS3972 - Portland and Blended Cements for Type GB (General Purpose Blended) cement.

The product has been intensively milled to provide excellent strength and contains 25% flyash (from coal power stations) to provide the following benefits:

- Enhanced workability and pumpability
- Improved resistance to shrinkage, sulphate / chloride attack and alkali silica reactions

As GB Builders Cement also offers an extended setting time, it is imperative that correct curing methods are followed.

## PRODUCT APPLICATIONS

GB Builders Cement can be used as a core ingredient for:

- Concrete
- Mortars
- Renders
- Grouts
- Stabilisation

## PRODUCT COMPATIBILITY

GB Builders Cement can be blended with other cements complying with AS3972 and with blast furnace slag complying with AS3582.2. The product is also compatible with admixtures complying with AS1478.

## PRODUCT PACKAGING

GB Builders Cement is available in 20kg bags.

## CEMENT PROPERTIES

The performance of the cement when tested using Australian Standard test methods will typically be within these ranges:

PROPERTY	BLENDED	AS3972
Initial set time	2 - 3 hrs	45 min
Final set time	3 - 4 hrs	10 hrs max
Soundness	0mm	5.0mm max
Fineness	420m <sup>2</sup> / kg	

COMP. STRENGTH	BLENDED	AS3972
3 days	27MPa	
7 days	37MPa	20MPa min
28 days	56MPa	35MPa min

## MORTAR / RENDER MIX GUIDE

GB Builders Cement is suitable for use in brick mortars and wall renders. The following table provides a guide to the proportions (by volume) to be used:

MATERIAL	BLENDED	SAND	LIME
General Purpose Mortar	1	6	1
High Durability Mortar	1	3	0 - 0.2
Maximum Bond Mortar	1	4.5	0.2 - 0.5
Wall Render	1	3	0

## CONCRETE MIX GUIDE

Where GB Builders Cement is proposed for use in structural applications, reference should be made to AS1379 "The Specification and Manufacture of Concrete".

AS3600 "Concrete Structures" recommends minimum strengths and minimum cement contents to achieve adequate concrete durability.

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APPLICATION	BLENDED	STONE / GRAVEL 10mm	SAND
Strength and Watertight	1	3	1.5
General Use (paths etc.)	1	4	2.5
Foundations and large masses	1	5	3

Note: Figures in the table above are volumetric ratios.

## MIX RATIO

Always use the minimum volume of water necessary to achieve workability. A lower water to cement ratio will result in improved 28 day compressive and bond strength for given mix designs.

## PRODUCT MIXING

AS1379 gives requirements for material quality and mixing of ready-mixed concrete. Recycled water may be used only where testing can demonstrate compliance with the relevant section of AS1379.

## PRODUCT PLACING

Concrete should be compacted and given a suitable finish. Adequate cover to steel reinforcements is required to avoid corrosion.

## PRODUCT CURING

We recommend a minimum curing period of seven days for all applications. Concrete should be kept in a moist condition during this period.

Good curing practices will significantly improve the compressive strength of concrete.

### 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.

## CLEAN UP

Avoid generating dust. Clean up by vacuum or sweeping.

## PRODUCT STORAGE

GB Builders Cement 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

GB Builders Cement 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 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.



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