

# TECHNICAL DATA SHEET EASY MIX GP CEMENT



## PRODUCT DESCRIPTION

Easy Mix GP Cement is a general purpose cement which meets Australian Standard AS3972, Type GP.

It has been specifically manufactured for concrete, mortar, render, plaster, foundations and any other project requiring a high strength cement.

## PRODUCT PACKAGING

GP Cement is available in 7.5kg, 20kg and 30kg bags.

## PRODUCT COMPATIBILITY

Easy Mix GP Cement may be blended with other cements complying with AS3972. It is also suitable to blend with fly ash and / or blast furnace slag complying with AS3582.

## MIX RATIOS

The following mix ratios are based on a 20kg bag of Easy Mix GP Cement:

	SAND	STONE	LIME	BAGS m <sup>3</sup>
Strength and Watertight	1.5	3	n / a	21
General Use (paths etc.)	2.5	4	n / a	16
Foundations and large masses	2.5	5	n / a	14
Mortar	4	n / a	n / a	n / a
Mortar Composite	6	n / a	1	n / a
Render and Plaster	3	n / a	n / a	n / a

## APPLICATION INSTRUCTIONS

1. Choose and calculate the appropriate aggregates to mix with Easy Mix GP Cement depending on usage.
2. Accurately measure the cement and aggregate, mixing thoroughly until an even consistency and colour is achieved.
3. Add water slowly and continue mixing until the mixture is the right consistency. Avoid overwatering as this will lower the strength of the mix.
4. Place and compress the mix well, being careful not to over-finish the surface.

## PRODUCT CURING

Allow a minimum period of seven days for curing, maintaining a moist condition where possible. Water sprays, wet sand or moisture retaining techniques, such as polyethylene sheets or curing compounds can be utilised.

For normal class concrete, curing can produce a compressive strength of 80% - 100% greater than concrete not subjected to curing. Water application or moisture retention curing is more effective for lower grades of concrete.

For concrete strengths of 40MPa and above, curing is equally important. However, the type of curing mechanism is considered to be less critical. Curing will also affect other concrete properties including:

- Reduction in the potential for plastic cracking
- Improved surface quality, durability and impermeability
- Improved abrasion resistance
- Reduction in carbonation rates

## TECHNICAL PERFORMANCE

The following table provides an example of some typical cement properties of Easy Mix GP Cement:

PROPERTY	TYPE GP	AS3972
Initial Set Time	1.5 - 2.0hrs	45mins (min)
Final Set Time	2.5 - 3.0hrs	10hrs (max)
Constancy of Volume	1.0mm	5.0mm (max)
Fineness Index (per kg)	400 - 440m <sup>2</sup>	
3 day Comp. Strength	34 - 36MPa	
7 day Comp. Strength	48 - 50MPa	25MPa (min)
28 day Comp Strength	59 - 63MPa	40MPa (min)

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## PRODUCT STORAGE

Easy Mix GP 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

Easy Mix GP Cement contains cement powders including crystalline silica 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, 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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