

Rapid Set Concrete

Description and Uses

ACS Rapid Set Concrete is a premixed, bagged product containing accurately weighed Portland cement, specially graded coarse and fine aggregates, and quality admixtures. *Rapid Set 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, *ACS Rapid Set Concrete* is ideal for the following:

- Pergola posts
- Installation of stirrups
- Fence posts
- Signs
- Footings
- General concrete areas - where a quick setting time is required.

Packaging

ACS Rapid Set Concrete is available in 20kg bags.

Coverage

Each 20kg bag produces approx 10 litres of Concrete.

1 x 20kg Bag = 0.01m³
99 x 20kg Bags = 1.0m³

Note: Use approximately 2 x 20kgs bags per post hole.

Application

1. Prepare the postholes and brace each post in position, as per box below.

2. Thoroughly wet the hole so that the hole does not soak up the water required for the *ACS Rapid Set Concrete* mix.
3. Pour the water required into the hole. 1 x 20kg bag requires approximately 2.5 litres of water. (Add approximately 1.2 – 1.3 litres of water for every 10kg of *Rapid Set*)
4. Once water is placed in the hole, add the required amount of *ACS Rapid Set Concrete* into the hole around the post.
Do Not Mix.
5. Allow two (2) hours curing before continuing with the next construction stage.

Note: Due to the fast setting time of *Rapid Set Concrete* it is not recommended that the product be mixed in a wheel barrow. However, if this method is adopted it is essential to use the same water measurements as above, and only mix what can be installed within 10 minutes of mixing.

SETTING A POST – ‘Rule of Thumb

Width = 2 x width or diameter of the post. Eg: a 100mm x 100mm post would require a 200mm x 200mm hole.

Depth = 1/3 of the length of the post, Eg: a 2m long post would require a hole depth of 600mm into the ground. (Note: Some structures may need local 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	Average Results
Water Added per 20kg	2.5 Litres
Consistency (slump)	80mm
Plastic Density	2200kg/m ³
Volume Yield, m ³	0.01m ³ per 20kg bag
Compressive Strength – tested as per AS1012.2 : 1994	
8 hours	1.0 – 2.0 Mpa
7 days	15 – 20 Mpa
28 days	20 – 25 Mpa

Storage

ACS Rapid Set Concrete will keep for up to 12 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

ACS Rapid Set 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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