

Pottery Plaster

TECHNICAL DATA

Advantages

- High strength
- Easy to use for mould casting
- Suitable for compression moulds

Description

Pottery Plaster is a fine specialist plaster designed for use in casting of moulds for ceramic products and plaster-craft replications. Ideal for slip casting of sanitary ware and statuary, and for the manufacture of compression moulds used in slab casting of tableware.

Recommended

Suitable for use in slip moulds for ceramic pieces, plaster models and craft replicas.

Suitable for the manufacture of compression moulds in the slab casting of crockery and tableware.

Pottery Plaster Specification

Colour:	White
Working time:	Setting Type – 10-12 minutes knife-set time
Packaging:	20kg bags.
Compressive Strength*:	Wet 6000kPa (min) Dry 13,000kPa (min)
Linear Expansion*:	0.05 - 0.25%
Surface Area:	5000 cm ² /g (min)
S.G.:	2.63
Solubility:	0.6g/100ml
Decomposition Temperature:	163°C
VOC:	Less than 50 grams per litre

* Values determined at water/plaster ratio of 65ml/100g.



Application

- When using Pottery Plaster, it is important to record the water/plaster ratio used in trials so that mixes can be adjusted according to experience.
- The strength, hardness and density of plaster cast are directly related to the quantity of water used for gauging, which should be kept to a workable minimum.
- Water/plaster ratios differ for each method of casting and are approximately: Slip casting – 5 litres to 6kg; Slab Casting – 5 litres to 7kg; Plaster Craft – 5 litres to 7kg.
- Weighed quantities of plaster should always be used, as the bulk density is variable and measurement by volume is unreliable.

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Avoid

- The inclusion of other materials to a mix will impair the performance (e.g. reduced strength and poor adhesion) and void the product warranty.
- DO NOT attempt to make an enclosed cast of body parts such as hands or fingers. Remember that you must always follow the Preparation, Mixing, and Health and Safety warnings for a particular plaster as displayed on its packaging. This Safety Alert is to advise the potential risks associated with the setting of certain dental, casting and pottery plasters when making fully enclosed casts of body parts such as hands or fingers. Plaster, when mixed with water, gives off heat during its setting phase. This may result in serious skin burns if fully enclosed casts of body parts such as hands or fingers are being made.

Mixing

- Always use clean cold water, tools and containers.
- Use of dirty tools or containers may reduce working time and strength.
- Do not mix with residues of previously used compounds.
- Weigh plaster and measure water accurately for each mix to ensure uniform moulds or casts.
- Add the Pottery Plaster slowly and allow powder to soak for 1-3 mins.
- Mix by hand or with a power mixer (max of 400rpm) until a workable paste has been achieved.
- **Caution:** Do not overmix. Overmixing can introduce air bubbles, which can create surface imperfections and may reduce working time.
- Once setting has commenced the material cannot be remixed and must be discarded.

Storage

- Boral Pottery Plaster should be stored under cover in a dry environment and protected from temperature extremes. Storage in an unsuitable environment can shorten the life of this product.
- It is recommended that Boral Pottery Plaster is used before the Best Before date displayed on the bag. It may still be usable after that date if stored unopened, in an appropriate environment.

Health and Safety

1. Dust from this product contains Silica. Prolonged inhalation may be harmful to health.
 2. Ensure adequate ventilation, wear eye protection and an approved disposable respirator which conforms to AS1716: 2012 Type P1 or P2.
 3. If dust or paste causes irritation use impervious PVC, Nitrile or Rubber gloves. Wash exposed skin after handling. If product gets into the eyes, wash thoroughly with clean water.
 4. Do not ingest contents of package. If ingested, seek medical advice.
 5. Keep contents out of reach of children.
 6. Be conscious of the environment. Dispose of empty packaging in a responsible manner.
 7. Follow safe lifting instructions on the bag.
 8. For further health and safety instructions, refer to the **Material Safety Data Sheet** for this product, available from your Boral Plasterboard sales office, **TecASSIST® 1800 811 222** or Boral website **www.boral.com.au**
- In Emergencies Call 1800 033 111**
Poison Information 13 11 26

Sales Enquiries 1800 003 377

TecASSIST® 1800 811 222

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The technical information contained in this publication was correct at time of printing. Product specifications and details are subject to change. There are many variables that can affect Plasterboard projects which can affect whether a particular product is appropriate for use in your construction project. To ensure the information you are using is current, Boral recommends you review the latest building information available on the Boral website, contact TecASSIST® or your nearest Boral Plasterboard Sales Office. Boral®, the Boral logo, Build something great™ and Boral.com.au are Trademarks or registered Trademarks of Boral Limited in Australia, other countries or both.

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