

# Dental Plaster

## TECHNICAL DATA

### Advantages

- High strength
- Quick set time

### Description

Dental Plaster is used mainly for flashing and mounting dental models. It can be mixed with a harder dental stone to adjust setting time and increase in strength.

### Recommended

A plaster for general laboratory purposes.

A finely ground high strength plaster manufactured to comply with AS1652-1974 (Dental Laboratory Plaster).

### Dental Plaster Specification

<b>Colour:</b>	White
<b>Working time:</b>	Setting Type – 5-10 mins knife-set time
<b>Packaging:</b>	20kg bags.
<b>Compressive Strength*:</b>	Wet 9700kPa (min) Dry 15,000kPa (min)
<b>Linear Expansion*:</b>	0.05-0.25%
<b>S.G.:</b>	2.63
<b>Solubility:</b>	0.6g/100ml
<b>Decomposition Temperature:</b>	163°C
<b>VOC:</b>	Less than 50 grams per litre

\* Values determined at water/plaster ratio of 50ml/100g.

### Application

- When using Dental 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.
- Weighed quantities of plaster should always be used, as the bulk density is variable and measurement by volume is unreliable.



### Avoid

- The inclusion of other materials to a mix will impair the performance (eg. reduce 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.

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### 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 Dental Plaster slowly and allow time for adequate soaking of water.
- 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 can reduce working time.
- Once setting has commenced the material cannot be remixed and must be discarded.

### Storage

- Boral Dental 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 Dental 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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Boral Australian Gypsum Limited – ABN 84 004 231 976  
17 Turner Street, Port Melbourne, Vic. 3207 Website: <http://www.boral.com.au/plasterboard>