

## TECHNICAL DATA SHEET

### Casting Plaster

#### Description

Casting Plaster is a general-purpose plaster developed and manufactured for use in the production of plaster craft replications.

Casting Plaster provides reproductions that are of medium hardness which makes it suitable for carving and turning.

#### Specifications

Feature	Description
Colour	White
Packaging	20kg bag and 1000kg Supersack
VOC	Less than 50g per litre
Manufacture	Low VOC plaster manufactured to stringent Knauf product quality specifications

#### Advantages

- Medium hardness
- General Purpose Plaster

#### Application

- When producing plaster casts, it is important to record the water to plaster ratio used in the trials so that mixes can be adjusted according to experience.
- Weighed quantities of plaster should always be used as the bulk density is variable and measurement by volume is unreliable.
- Strength, hardness and density of a plaster cast is directly related to the quantity of water used
- for gauging, which should be kept to a workable minimum. (Recommended water : plaster ratio is 65:100).

#### Recommended

- Casting Plaster is ideally suited to a wide variety of uses including the production of fibre reinforced cornice sections, cast panels, tiles, ceiling roses, statuary, giftware, articles and models.

#### Avoid

- Extreme climatic conditions or environment where the risk of early dry outs exists.
- The inclusion of other materials to a mix will impair the performance (eg. 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 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
- Do not mix with residues of previously used compounds. Use of dirty tools or containers may reduce working time and strength.
- Weigh plaster and measure water accurately for each mix to ensure uniform moulds or casts.
- Always add Casting Plaster to water (5kg of powder to 3.25L of water). Mix only enough Casting Plaster to meet needs.
- CAUTION: Do not overmix. Overmixing can introduce air bubbles, which can create surface imperfections and reduces working time.
- Pour the plaster into the mould, tapping or vibrating the mould to avoid air bubbles. Allow plaster to set completely before removing from the mould.
- Once setting has commenced the material cannot be remixed and must be discarded. The inclusion of other materials in the mix will impair the performance of this product and will void the product warranty
- Dry plaster casts and objects thoroughly. Casts can be air or oven dried. Oven drying should be carried out in a thermostatically controlled fan forced oven with temperatures not exceeding 45-50°C.

## **Storage**

- Casting 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 Casting 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.

## **Healthy & 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 immediately.
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 product label.

All technical data, recommendations and service are accurate to the best of our knowledge. Adelaide Moulding and Candle Supplies assumes no responsibility for the results obtained or damage incurred from use by the buyer in whole or in part since method of application and its use is beyond our control.