

Dental Plaster

Product Description

Dental Plaster is a formulated hemihydrate plaster ($\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$) produced from naturally occurring gypsum mineral. It is off-white in colour.

Applications

It is used in dentistry during the flasking operation in the production of dentures.

It can be mixed with dental stone plaster for the production of model bases.

It is also used to produce craft models.

Technical Data

The technical data outlined represents typical figures only. For further details, please contact Formula directly.

Initial Vicat setting time @ pwr of 1.67:1, 100/60 11 minutes

Minimum compressive strength, 2 hours after setting @ pwr of 1.67:1 6.4MN/m²

Maximum linear expansion, 2 hours after setting @ pwr of 1.67:1 0.35%

Unless otherwise stated, Formula's standard test methods apply. To obtain a copy of the test methods used, please contact Formula directly.

The plaster to water ratios quoted are those used in Formula's standard test methods and are not necessarily those used in practice. The precise consistency to use will need to be adjusted to suit the individual application. Changes to plaster to water ratio will influence product performance particularly setting time and strength.

Plaster based products are not recommended for conditions where they are likely to be located externally or in any way subjected to weathering or excessive dampness.

Mixing Guidelines

Mixing utensils should always be clean and free of set plaster. Use clean water only. For consistent results, attention must be given to the correct proportioning and mixing of the plaster and water. Add the weighed quantity of plaster slowly into the measured volume of water and allow to soak for one minute. Stir vigorously with a spatula to obtain a uniform mix. To obtain very fine detail and to exclude air bubbles, the plaster should be vibrated into the impression. The fluidity of the mix can be increased by increasing the proportion of water, however this will result in reduced strength and hardness. If mechanical mixing is used with or without vacuum, the mixing time will be much less than that for hand mixing. The time will be dependent on the type of mixer paddle and speed. Do not mix fresh plaster with that which has been mixed for some time previously.

When stored under dry conditions, this product will have a shelf life of six months from the date of manufacture that is displayed on each sack.

Absorption of moisture can result in changes to physical properties including a reduction in the set strength of plasters and also a lengthening of setting time. To help protect the product during use, open or part used bags should be carefully folded and closed.

Each bag is date stamped and stocks should be rotated so that the oldest material is used first.

For further technical information or advice on any matter relating to a BPB Formula product, please contact Formula directly.

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Supply Details

Unless otherwise stated, BPB Formula industrial plasters and gypsum minerals are available in 25Kg, 35Kg, 40Kg or 50Kg paper sacks depending upon manufacturing location. Other pack options such as IBC (bulk bags) and bulk product in road tanker may also be available. The company contracts solely upon its conditions of sale, copies of which are available on request. Advice as to merchant outlets for industrial products may be obtained by contacting the sales offices listed.

Health and Safety

Health and Safety information sheets are available for all BPB Formula Industrial Plasters and Gypsum Minerals and can be obtained by contacting the sales offices listed.

General health and safety information is printed on each sack.

No liability is accepted for injury to any person or loss or damage to property by improper use of the product. All information has been provided in good faith but the information may be subject to change.

Any instruction manuals or other literature provided with the product or in respect of the product at any time thereafter are correct at the time of supply but may be updated at a later date. Should the user of the product at any time be unsure about the contents or currency of any such information manuals or other literature then contact should be made with BPB Formula.

Information

For further information including technical service and health & safety enquiries please contact

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