

Amphore Cast

Product Description

Amphore Cast is a 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

This product is used in the ceramics industry to produce working moulds for the slip casting of tableware and sanitaryware.

Technical Data

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

Recommended mixing ratio	1.33:1 100g / 75ml
Spread	17 to 22 cm
Initial setting time (knife)	7 - 12 minutes
Average flexular strength	4,3 MN/m ²
Average compressive strength	9,0 MN/m ²
Average Brinell hardness	15 MN/m ²
Maximum linear expansion	0.24%
Sieve - weight retained +200µm	max 0.06%

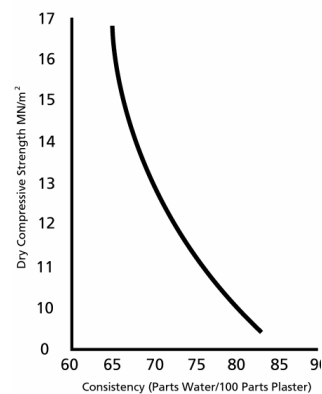
Unless otherwise stated, Formula's standard test methods apply. To obtain a copy of the test method, please contact Formula directly.

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.

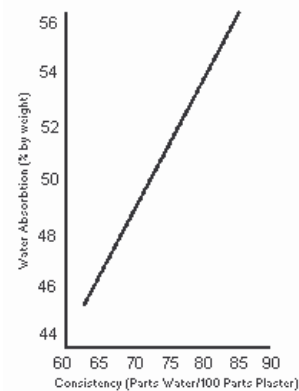
Changes to plaster to water ratio will influence product performance, particularly setting time and strength.

The following graphs help illustrate how varying ratios will affect compressive strength and water absorption.

Compressive Strength vs. Plaster to Water ratio



Water Absorption vs. Plaster to Water ratio



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The recommended plaster to water ratio is between 1,25 and 1,40 : 1, with a mixing time of approx. 2 to 4 minutes, depending on batch size.

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Storage

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.

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

Supply Details

Amphore Cast is available in 40Kg paper sacks. 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.

Health and Safety

Health and Safety information sheets are available for all BPB Formula Industrial Plasters and Gypsum Minerals and may be obtained on request.

No liability is accepted for injury to any person or loss or damage to property by improper use of the product. Information may be subject to change.