Amphore Dur

Product Description

Amphore Dur is a hemihydrate plaster ($CaSO_4.½H_2O$) 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 automatic forming of clay.

Technical Data

The technical data outlined represents typical figures only. Unless otherwise stated, Formula's standard test methods apply. For further details, please contact BPB Formula.

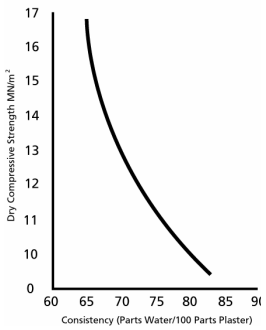
Recommended mixing ratio	1.78:1 100g / 56ml
Spread	17 to 22 cm
Initial setting time (knife)	10 - 15 minutes
Average flexular strength	6,5 MN/m²
Average compressive strength	20,0 MN/m²
Average Brinell hardness	32 MN/m²
Maximum linear expansion	0.26%
Sieve - weight retained +200µm	max 0.06%

The plaster to water ratios quoted are those used in BPB 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.

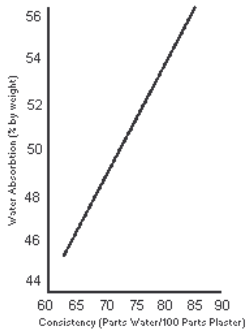
The recommended plaster to water ratio is between 1,65 and 1,80 : 1, with a mixing time of approx. 2 to 4 minutes, depending on batch size.

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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Instructions for use

Mixing utensils should always be clean and free from set plaster. Use distilled water only. For consistent results, attention must be given to the correct proportioning and mixing of the plaster and water.

Do not mix fresh plaster with that which has been mixed for some time previously.

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 product, please contact BPB Formula directly.

Supply Details

Amphore Dur 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.

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