

deffner & Johann

Supplies for RESTORATION | CONSERVATION | ART HANDLING – SINCE 1880

TECHNICAL DATA SHEET

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Alabaster Plaster

PRODUCT DESCRIPTION

Alabaster Plaster is a formulated plaster used in ceramics to produce working moulds for the slip casting of tableware and sanitaryware

PRODUCT BENEFITS

- + Excellent for slip casting sanitaryware
- + Good balance between mechanical properties and absorption capability

APPLICATIONS

Sanitaryware, Tableware, Floor, Wall, Dental

TECHNICAL INFORMATION

Plaster to Water Ratio	
Plaster to Water Ratio (by weight)	1.45:1
Water to plaster ratio (by weight)	69%
Chemical Properties	
Chemical Composition	CaSO ₄ .1/2H ₂ O
Setting Parameters	
Vicat Ring Fluidity (cm)	17-22
Initial setting time (minutes)	10-15
Linear Expansion (%)	0,2
Mechanical Properties	
Flexural Strength (MPa)	5,6
Brinell Hardness (MPa)	21
Dry compressive strength (Mpa)	12
Pore Volume (%)	50
Physical Properties	
Particle Size (% weight retained)	< 0.04% at 200 µm 4% at 90 µm
Apparent Bulk Density (g/cm ³)	800

INSTRUCTIONS FOR USE

The recommended plaster to water ratio is between 1.20:1 and 1.45:1, with a mixing time of approx. 2 to 4 minutes, depending on batch size and plaster shop process. Water and Plaster must be measured carefully to ensure constant performances. 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, strength and permeability.

PACKAGING AND SHELF LIFE

	Packaging Available	Shelf Life (Month)
Bag	25 kg, 50 kg	6 months
Bulk Bag	1 T	6 months
Bulk tanker	25 T	Technical properties noted are at receipt of goods.

When stored under dry conditions and in its original packaging, the product will have a specified shelf life that commences from the date of manufacture that is displayed on each sack. Shelf life depends on the packaging type. For those products where a defined 'best before' date is applicable, BBE (Best Before End) followed by the date will be displayed on each sack.

ENVIRONMENT, HEALTH AND SAFETY

No liability is accepted by Deffner & Johann GmbH for injury to any person or loss or damage to property by improper use of the product.

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.

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.

Gypsum minerals can be affected by absorption of moisture and may change physical properties.

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.