

CRYSTACAL ALPHA K

Fibrous & Decorative

PRODUCT DESCRIPTION



Crystacal Alpha K is a formulated hemihydrate plaster ($\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$) produced from naturally occurring high purity gypsum mineral. It is white in colour. It is used for the production of fine detailed and high strength giftware and models.

PRODUCT BENEFITS

- + Exceptionally high strength and surface hardness
- + Low expansion
- + Excellent reproduction of fine detail

APPLICATIONS

Artistic

TECHNICAL INFORMATION

Chemical name	Calcium Sulphate Hemihydrate
Chemical composition	$\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$
Plaster to water ratio (by weight)	4.76:1
Water to plaster ratio (by weight)	21 %
Plaster to water mix ratio (by weight)	100/21
Sieve analysis (mesh size & % weight retained)	0.0 % at 63 μm 1 % at 32 μm
Colour	White
Colorimeter (L* value)	92
Colorimeter (a* value)	0.4
Colorimeter (b* value)	3.5
Initial setting time (minutes)	25
Final setting time (minutes)	28
Linear expansion (%)	0.12
Brinell hardness (MPa)	400
Dry compressive strength (MPa)	97
Wet compressive strength (MPa)	55
Bulk density (loose) (kg/m^3)	900
Bulk density (compacted) (kg/m^3)	1350

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

KEY INFORMATION

Please use with the recommended plaster water ratio, with a mixing time of approximately 2 to 4 minutes or with a mixer until homogenous. 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.

PACKAGING AND SHELF LIFE

	Packaging Available	Shelf Life (Month)
Tub	25 kg	12

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

Material Safety Data Sheets of Saint-Gobain Formula plasters and gypsum minerals are available for all products and may be obtained directly on our website in the [product](#) and [documentation](#) sections. No liability is accepted by Saint-Gobain Formula for injury to any person or loss or damage to property by improper use of the product.

DISCLAIMER

This product has been designed for the intended use outlined in this product datasheet. All information herein cancels and replaces any previous document and is provided for sole indicative purpose and is based on Saint-Gobain Formula's knowledge and experience on the date of issuance of this datasheet. Saint-Gobain Formula reserves the right to amend or modify this datasheet. To make sure you are up to date with the latest changes that may have occurred, visit frequently our website. It is advisable to contact Saint-Gobain Formula in case of any doubt arising from the content of such information. Unless otherwise stated, Saint-Gobain Formula's test methods apply. To obtain a copy of the test method, please contact Saint-Gobain Formula directly.

Saint-Gobain Formula shall not be liable for damages or losses of any kind due to an improper use of the product. This datasheet shall not be construed as a substitute for a professional advice before product's use or installation. It is the user's responsibility to use, or install, the products in strict compliance with the applicable norms, standards and professional uses in force on the date of use, or installation.

CONTACT

*For any information, please visit our website
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