

CRYSTACAL EXTRA FINE

Dental and personal care

PRODUCT DESCRIPTION

Crystacal Extra Fine is a very high strength hemihydrate plaster produced from high purity gypsum. This product is used as a very high strength additive in proprietary formulations (especially for Type 4 dental formulation or plaster bandages).

PRODUCT BENEFITS

- + Very strong mechanical properties
- + Very fine particle size distribution

APPLICATIONS

Dental, Medical

TECHNICAL INFORMATION

Plaster to Water Ratio	
Plaster to Water Ratio (by weight)	2.86:1
Water to plaster ratio (by weight)	35%
Plaster to water mix ratio (by weight)	100/35
Chemical Properties	
Chemical Name	Calcium Sulphate Hemihydrate
Chemical Composition	CaSO ₄ .½H ₂ O
Colour	White
Colorimeter (L value)	92
Colorimeter (a value)	0.3
Colorimeter (b value)	3.5
Final setting time (minutes)	7
Setting Parameters	
Initial setting time (minutes)	4
Linear Expansion (%)	0.45
Mechanical Properties	
Brinell Hardness (MPa)	190
Dry compressive strength (Mpa)	52
Wet Compressive strength (Mpa)	25
Physical Properties	
Particle Size Distribution (mesh size and % weight retained)	0.0% at 63µm 5.0% at 32µm
Loose bulk density (kg/m ³)	900
Compacted bulk density (kg/m ³)	1350

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

INSTRUCTIONS FOR USE

As an ingredient in proprietary formulations.

PACKAGING AND SHELF LIFE

	Packaging Available	Shelf Life (Month)
Bag	25kg	9

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.

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.

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.

NOTIFICATION

The plaster to water ratios quoted are those used in Saint-Gobain 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. Unless otherwise stated, Saint-Gobain Formula's standard test methods apply. To obtain a copy of the test method, please contact Saint-Gobain Formula directly. This literature cancels and replaces any previous document. All information given is provided in good faith and may be subject to change. It's advisable to contact Saint-Gobain Formula in case of any doubt arising from the content of such information.

CONTACT

*For any information, please visit our website
www.saintgobainformula.com*



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