

# PRO-SOLID

Dental & Personal Care



## PRODUCT DESCRIPTION

Pro-Solid is a formulated hemihydrate gypsum ( $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$ ) produced from the natural gypsum mineral. The material is available in yellow, pink, green or blue. This product is intended for use in opposing models, working models, repair models, prosthetic models.

## PRODUCT BENEFITS

- + Type 3
- + Low expansion

## APPLICATIONS

Dental

## 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)	3.33:1
Water to plaster ratio (by weight)	0.3
Plaster to water mix ratio (by weight)	100/30
Colour	Yellow, Pink, Green or Blue (for alternatives, please speak to your sales contact)
Final setting time (minutes)	15
Working time (minutes)	10
Linear expansion (%)	0.18
Wet compressive strength (Mpa)	28

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

## KEY INFORMATION

Mixing utensils should always be clean and free of set plaster. Use clean water only. For consistent results, attention must be given to the correct proportioning and mixing of the plaster and water. Add the weighed quantity of plaster slowly into the measured volume of water and allow to soak from 30 seconds to 60 seconds. Stir vigorously with a spatula for 30 seconds to 60 seconds to obtain a uniform mix. If mechanical mixing is used with or without vacuum, the mixing time will be much less than that for hand mixing. The time will be dependent on the type of mixer paddle and speed. To obtain very fine detail and to exclude air bubbles, the plaster should be vibrated into the impression. The fluidity of the mix can be increased by increasing the proportion of water, however this will result in reduced strength and hardness. Do not mix fresh plaster with that which has been mixed for some time previously.

## PACKAGING AND SHELF LIFE

	Packaging Available	Shelf Life (Month)
Sack	25 kg	9
Sack	25 kg	18* *Open mouth sack
Tub	25 kg	24

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.

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.

## CERTIFICATION



ISO 6873

## 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*

*[www.saintgobainformula.com](http://www.saintgobainformula.com)*



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