

SUPRADURO BASE E

Specialist Industries, Construction Materials

PRODUCT DESCRIPTION

Supraduro Base E is a hemihydrate plaster ($\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$). It is designed to be used in refractory investment for casting foundry moulds. This product is also designed to be used as an additive within proprietary formulations.

PRODUCT BENEFITS

- + Fast initial setting time
- + Fine particle size
- + High water demand

APPLICATIONS

Wall

TECHNICAL INFORMATION

Chemical name	Calcium sulphate hemihydrate
Chemical composition	$\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$
Minimum gypsum purity (%)	92
Plaster to water ratio (by weight)	1.39 : 1
Water to plaster ratio (by weight)	72%
Plaster to water mix ratio (by weight)	100 : 72
Vicat ring fluidity (cm)	17 - 22
Initial setting time (minutes)	6 - 16
Final setting time (minutes)	18 - 30
Flexural strength (MPa)	>4.0
Dry compressive strength (Mpa)	>8.0
Particle size distribution (mesh size and % weight retained)	<0.01% at 150 microns
Bulk density (loose) (kg/m^3)	620 - 720

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

KEY INFORMATION

The recommended plaster to water ratio is between 1.33:1 and 1.40 : 1, with a mixing time of approx. 2 to 4 minutes, depending on batch size. 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.

Add the weighed quantity of plaster slowly into the measured volume of water and allow to soak. Do not mix fresh plaster with that which has been mixed for some time previously. Changes to plaster to water ratio will influence product performance, particularly setting time and strength.

PACKAGING AND SHELF LIFE

	Packaging Available	Shelf Life (Month)
Sack	25 kg	6
Bulk Bag	1.2 T	6

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.

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.

CONTACT

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



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Documentation



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