

PRODUCT DESCRIPTION

HP2L is a formulated plaster designed for the production of working moulds for the slip casting in the ceramic industry as tableware, sanitaryware and refractories. The product has longer setting time.

PRODUCT BENEFITS

- + Design for slip casting
- + Good balance between mould life and absorption capability
- + Longer setting time

APPLICATIONS

Sanitaryware, Tableware

TECHNICAL INFORMATION

Chemical name	Calcium Sulphate Hemihydrate
Chemical composition	CaSO ₄ .½H ₂ O
Plaster to water ratio (by weight)	1.61:1
Water to plaster ratio (by weight)	62%
Plaster to water mix ratio (by weight)	100/62
Colour	Off-white
Vicat ring fluidity (cm)	19
Initial setting time (minutes)	14
Final setting time (minutes)	18
Linear expansion (%)	0.24
Particle size distribution (mesh size and % weight retained)	45% at 32 µm 28% at 63 µm 15% at 90 µm 4.5% at 150 µm
Bulk density (loose) (kg/m ³)	930
Bulk density (compacted) (kg/m ³)	1360

KEY INFORMATION

The recommended mixing time is approx. 2 to 4 minutes, depending on batch size. 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. Depending on quality and preparation, the clay has a varying tendency to stick to the mould. Therefore the pwr may be adjusted within the above ranges. Depending on the quantity, the tendency to stick increases as the pwr increases. When inserting on the press, the lowest ratio should be tested first, followed by increasing increments to determine the optimum ratio.

PACKAGING AND SHELF LIFE

	Packaging Available	Shelf Life (Month)
Sack	25 kg	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.

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.

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.

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