

HARTFORM 1

Construction Materials, Dental and personal care, Fibrous and Decorative Plaster

PRODUCT DESCRIPTION

Hartform 1 is a high strength formulated alpha plaster. This product is used as an ingredient in proprietary formulations. It can be also used for sculpture, general casting of decorative plasterwork, modelling applications or in the ceramics industry for the production of block and case moulds.

PRODUCT BENEFITS

- + 100 % alpha plaster
- + Low water demand
- + Fine Particle size

APPLICATIONS

Fibrous plaster, Floor, Dental

TECHNICAL INFORMATION

| Plaster to Water Ratio | |
|---|---|
| Plaster to Water Ratio (by weight) | 2.5:1 |
| Water to plaster ratio (by weight) | 40% |
| Plaster to water mix ratio (by weight) | 100/40 |
| Chemical Properties | |
| Chemical Name | Calcium sulphate hemihydrate |
| Chemical Composition | $\text{CaSO}_4 \cdot 1/2\text{H}_2\text{O}$ |
| Setting Parameters | |
| Vicat Ring Fluidity (cm) | 14-22 |
| Initial setting time (minutes) | 8-20 |
| Linear Expansion (%) | 0.43 |
| Mechanical Properties | |
| Flexural Strength (MPa) | 10 |
| Brinell Hardness (MPa) | 65 |
| Dry compressive strength (Mpa) | 30 |
| Physical Properties | |
| Particle Size (% weight retained) | 0.04 % at 200 μm |
| Loose bulk density (kg/m ³) | 1200 |

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

INSTRUCTIONS FOR USE

This product is manufactured from a naturally occurring mineral and therefore variations in colour and non-gypsum content are to be expected. As a ready-to-use plaster, the recommended plaster to water ratio is between 2.4:1 and 2.6:1, with a mixing time of approx. 2 to 4 minutes. 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.

PACKAGING AND SHELF LIFE

| | Packaging Available | Shelf Life (Month) |
|-------------|---------------------|--|
| Bag | 25 kg / 50 kg | 6 |
| Bulk Bag | 1 T | 6 |
| Bulk Tanker | 25 T | Technical properties noted are at receipt of goods |

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.

CERTIFICATION



DOP N° 01213279A10613

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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