

# ALFAMOLDE R59

Ceramics

## PRODUCT DESCRIPTION

Alfamolde R59 is a formulated plaster used in ceramics to produce working moulds for jiggering. This new product can be used in high plaster to water ratio in order to reach longest mould life.

## PRODUCT BENEFITS

- + **Controlled expansion**
- + **High mechanical resistance**
- + **Long mould life**

## APPLICATIONS

Tableware

## TECHNICAL INFORMATION

Plaster to Water Ratio	
Plaster to Water Ratio (by weight)	1.70:1
Water to plaster ratio (by weight)	59%
Plaster to water mix ratio (by weight)	100/59
Chemical Properties	
Chemical Name	Calcium Sulphate Hemihydrate
Chemical Composition	$\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$
Minimum gypsum purity %	94
Colour	White
Setting Parameters	
Vicat Ring Fluidity (cm)	22
Initial setting time (minutes)	14
Linear Expansion (%)	$\leq 0.22$
Mechanical Properties	
Flexural Strength (MPa)	7
Brinell Hardness (MPa)	45
Dry compressive strength (Mpa)	16
Physical Properties	
Particle Size (% weight retained)	Trace at 200 $\mu\text{m}$ < 2 % at 100 $\mu\text{m}$
Loose bulk density (kg/m <sup>3</sup> )	725

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

## INSTRUCTIONS FOR USE

The recommended plaster to water ratio is between 1.70:1 and 1.85:1, with a mixing time of approx. 2 to 4 minutes, depending on batch size and plaster shop process. Water and Plaster must be measured carefully to ensure constant performances. 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	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.

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  
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