



# PRODUCT TECHNICAL DATA SHEET

## SUPASET CEM II 42.5R

### Mfamosing Plant

#### Product Description

Supaset cement is a Portland-limestone cement product manufactured in accordance with, and certified to BS EN 197-1 and NIS 444-1. This product is marketed as CEM II /B-L 42.5R. Supaset cement is specially formulated to satisfy all the requirements of the sandcrete block and precast concrete segment of the Nigerian built industry.

#### Composition

In compliance with the chemical composition requirements specified in BS EN 197- 1 the product has a clinker content ranging between 65 and 79 by cement mass, limestone addition content ranging between 21 and 35 by cement mass and less than 5% of cement mass of calcium sulphate (gypsum).

#### Standard Requirements (BS EN 197-1)

##### Chemical Requirements

Magnesium Oxide (MgO)	≤ 5
Sulphates (SO <sub>3</sub> )	≤ 4.0
Chlorides (Cl <sup>-</sup> )	< 0.1

##### Physical Requirements

Initial Setting Time (IST)	≥ 60 mins
Soundness	≤ 10 mm

##### Mechanical Requirements

Compressive Strength	2 days	≥ 20 MPa
	28 days	≥ 42.5 MPa

## Applications

Supaset cement offers effective solutions to the requirements of sandcrete block and concrete precast makers. Elephant Supaset cement can be used for the following applications

- Sandcrete Block
- Poles and Spun Concrete Pipe Manufacturing
- Culvert and Precast Concrete Products in general
- Interlocking Tiles/Blocks/Bricks
- Well Rings

## Advantage

**SUPASET** advantage includes:

- Consistent quality
- High Early Strength
- Quick Setting time
- Reduced Block Breakages
- Improved Cohesion
- Smoother Surface Finish
- Quicker turnaround time

## Storage Condition / Shelf-Life

Minimum of 6 months from date of production if stored properly in original unopened, sealed and undamaged packaging in cool and dry conditions at temperatures between +15°C and +35°C.

Protect from direct sunlight and humidity.

## Health, Safety & Environment

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

Use proper engineering controls, work practices, and personal protective equipment to prevent exposure to wet or dry Supaset Cement.

The use of basic PPE like hand gloves, nose mask, safety glasses and safety shoes are very important.

## Packaging

Available in 50Kg bag and 30 tons bulk tanker.

*For professional use only, the user is advised to conduct tests and assessments in order to define the suitability of the product for the intended application.*

For Information:

**Technical Assistance**

[ng-m-technical-service@lafarge.com](mailto:ng-m-technical-service@lafarge.com)

Mfamosing Akampka LGA,

Cross River State

[www.lafarge.com.ng](http://www.lafarge.com.ng)