



**Bamburi**  
**cement**

Bamburi Cement Limited is East Africa's leading cement producer with an annual capacity of 2.3 million tons, and a member of Lafarge Group - the world's largest building materials supplies group. Bamburi is one of the most technologically advanced yet environmentally responsible cement producers in Africa.

All Bamburi Cement products are produced under stringent quality controls in line with both Kenya Bureau of Standards and EN (European Norms) standard specifications. Bamburi Cement products have been awarded the superior Diamond Mark of Quality certificate by the Kenya Bureau of Standards, epitomising excellent, consistent performance on quality and compliance to standards.

Bamburi Cement provides the **WIDEST** and most **INNOVATIVE** range of Cement and Concrete Solutions.

### Our Vision

To delight our customers with innovative construction solutions while being committed to sustainability.

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**LafargeHolcim**



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## POWERPLUS CEM I 42,5

*For high strength concrete*



**Bamburi**  
**cement**  
Part of you. From the start

# POWERPLUS CEM I 42,5

## General

**POWERPLUS 42,5** is traditionally known as Ordinary Portland Cement (OPC). It is utilized very efficiently on large construction and infrastructure projects to optimize performance. These applications require good technical ability, quality control and experience to design mixes.

**POWERPLUS 42,5** has wide applications, particularly where high strength is an important consideration. It can also be used for general concrete works.

## Composition

**POWERPLUS 42,5** is formulated from grinding Portland clinker according to the physical and chemical requirements of KS EAS 18 - 1 compositions specifications and conformity criteria for common cements standards as adopted from EN-197-1 (European Norm) standards.

## Benefits

- **POWERPLUS 42,5** is characterized by high early and 28 day strengths
- Low alkali ( $\text{Na}_2\text{O}$  equivalent < 0.6%) to guard against alkali-aggregate reaction in concrete
- High strength concrete
- Rapid demoulding
- Uses less cement in concrete mix designs with high strength
- Best for specialist technical applications e.g pre-stressing and post tensioning
- It is ideal for precast works

## Applications

**POWERPLUS 42,5** is very effective in high strength applications, particularly where the early day strengths are an important consideration.

### FOR SOIL STABILISATION

Where strength properties are required without danger of brittleness from significant long term strength gains.



Soil stabilisation

### FOR HIGH STRENGTH CONCRETE

Where high concrete strengths, rapid demoulding and construction speed is required.



Bridges



High-rise structures

### FOR LARGE PROJECTS

Where projects require high strength concrete.



Dam/reservoir construction



Large Beams, Columns and Slip Form Works

### FOUNDATION WORKS

**POWERPLUS 42,5** is suited for all types of foundation works due to its fast setting and high strengths.



Foundation

### FOR ORDINARY CONSTRUCTION

Where the versatility of **POWERPLUS 42,5** is of essence. All concrete works with a wide range of strengths including concrete slabs, beams columns, water retaining structures, retaining walls etc.

## Storage & Usage information

	<b>STORAGE</b> Store bagged cement by stacking on raised timber platforms or plastic sheeting to prevent rising dampness. Avoid contact with external walls. Use the cement in the order you have received it i.e first in first out.
	<b>MIXING</b> Accurately measure all materials with a suitable container (wheelbarrow or bucket). Mix thoroughly until a uniform colour is obtained. Add water whilst mixing but avoid adding too much water.
	<b>WATER</b> In general, the more water used for a given quantity of cement, the weaker the concrete or mortar will be. It is therefore important to use the minimum amount of water required to make the mix workable.
	<b>CURING</b> Concrete or plaster should be kept moist for at least 7 days to prevent cracking and to ensure that its strength increases. Spray gently with water or protect it with plastic sheets (or wet hessian) to prevent it from drying out.

## HEALTH AND SAFETY WARNING



- When working with cement wear safety glasses and gloves
- Wash your hands after working with wet cement
- Wear a dust mask
- Wear a safety helmet
- In the event of cement contact with eyes, rinse thoroughly with water and get medical attention if necessary
- Keep cement out of reach of children