



Bamburi cement

Bamburi Cement Limited is East Africa's leading cement producer with an annual capacity of 3.2 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 Kenyan and EN (European Norm) 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 be the undisputed leader and preferred partner by providing innovative solutions for nation building.

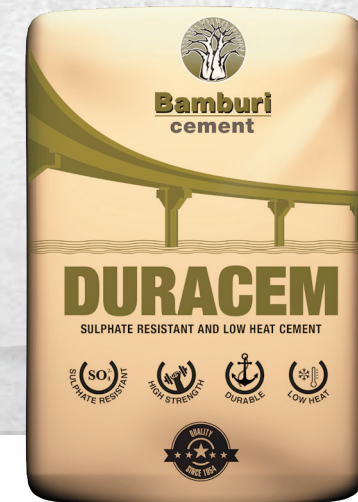


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DURACEM CEM III 42,5 LH/SR Sulphate Resistant and Low Heat of Hydration



DURACEM 42,5 LH/SR

General

DURACEM 42,5 LH/SR is a premium cement that is engineered for specialized applications to provide;

- Superior Sulphate Resistance
- Very Low Heat
- Excellent strength

DURACEM 42,5 LH/SR combines high technical performance for projects with all round versatility in aggressive environments.

The characteristics of sulphate resistance and high strengths in particular make **DURACEM 42,5 LH/SR** the effective solution for durability of concrete.

The attribute of low heat of hydration significantly reduces the risk of thermal cracking in large concrete pours with lowered peak temperatures at all ages.

Composition and performances

Bamburi Cement manufactures **DURACEM CEM III/B 42,5 N LH/SR** at its Bamburi Cement Plant in Mombasa by intergrinding Portland Cement Clinker with Blast Furnace Slag.

The products conform to the physical and chemical requirements of Kenyan Standard KS EAS 18-1 as adopted from the European Norm EN 197-1 cement standard.

Bamburi Cement manufactures **DURACEM 42,5 LH/SR** under strict quality assurance and quality control procedures to ensure optimum product performance and consistency.

There are many variables that affect concrete performance that are beyond the control of the cement manufacturer. Skilled persons should use cement with special attention given to batching, mixing, placing, compaction, finishing and curing.

The judicious selection of concrete constituent materials with special emphasis on aggregates complying to relevant standards coupled with a proper **concrete mix design process and testing of trial mixes** will assist users in obtaining required concrete strengths and performance.

Benefits

DURACEM 42,5 LH/SR retains the 28 days strength characteristics of **CEM I (OPC) 42,5** cement while having the following enhanced attributes;

- Sulphate resistance
- Low Heat of Hydration
- Reduced bleeding
- Reduced porosity
- Improved cohesion
- Environmentally friendly (Less CO₂ emission)
- Smoother surface finish

Applications

DURACEM 42,5 LH/SR offers effective solutions to the requirements of a wide range of specialist applications.

1. For high strength marine projects

Where sulphate resistance is required due to sea water or high sulphates in soil or ground water.



Bridges in coastal or sea environment



Piers, Wharves, Quays, Ports etc.

2. For large projects

Where projects require large pours with low of Heat of Hydration for long term durability.



Dam/reservoir construction



Deep rafts, Windmill foundations, Large Beams, Columns & Slip Form Works

3. Water treatment works

DURACEM 42,5 LH/SR is suited for concrete in fresh water treatment works due to resistance of ALUM (Aluminium Sulphate) used in flocculation and clarification. It is also suited for applications in concrete for waste water (sewage) works.