



# Lafarge Cement

Tried and Trusted Strength

## Masonry cement

**Masonry Cement (22.5X)** is a cement which is ideal for general construction works

### Uses – Cement Mortar

- Floor surface screeds
- Internal and external plastering
- Mortar for brick laying
- General Construction

### Characterisitcs

**Masonry Cement (22.5X)** is characterized by good early and 28 day strengths.

### Composition and Conformance

**Masonry Cement (22.5X)** is formulated from Cement Clinker and interground with other constituents such as calcined clay brick and limestone, in accordance to the requirements of ZWS EN 413:2001

### Application

Making mortar with Masonry Cement (22.5X) requires a standard ratio mix of 1:4 (cement:sand)  
Ratios are a standard guide and contractors can apply variable methods in their mixing ratios.

### Material and safety data

**INHALATION:** Wear approved dust masks as breathing cement dust may cause nose, throat, lung irritation or choking.

**EYES:** Wear glasses or safety goggles to prevent contact with eyes. Eye contact with cement may cause serious and potentially irreversible injuries.

**SKIN CONTACT:** Wear impervious gloves, shoes and protective clothing to prevent skin contact. Prolonged skin contact with wet cement may cause serious burns. Repeated contact may cause contact dermatitis.

**INGESTION:** In case of accidental ingestion, do not induce vomiting. If the person is conscious, wash out mouth with water and give plenty of water to drink.

**HANDLING:** Cement when mixed with water on application produces heat which is called heat of hydration and can cause irritation when handled without gloves





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## Portland cement

**Portland Cement (CEM II/B-L 32.5R)** is a cement with a wide range of applications from domestic concrete to large building projects. Its good strength performance makes it suitable for both general purpose and structural concrete applications.

### Structural Applications/Reinforced concrete Cement Concrete/ Mortar

- Suspended slabs
- Beams
- Columns
- Foundations
- Lintels
- Water retaining structures
- Pre cast concrete members
- General Construction
- Manufacturing of pavers, bricks, roof tiles and a number of precast elements

### Composition and Conformance

**Portland Cement (CEM II/B-L 32.5R)** is formulated from Cement Clinker and interground with other constituents such as calcined clay brick and limestone, in accordance to the requirements of the following standards adopted from the ZWS EN 197:2000

### Characterisitcs

Portland Cement (CEM II/B-L 32.5R) is characterized by good early and 28 day strengths.

### Composition and Conformance

#### Portland Cement (CEM II/B-L 32.5R)

is formulated from Cement Clinker and interground with other constituents such as calcined clay brick and limestone, in accordance to the requirements of the following standards adopted from the ZWS EN 197:2000.

#### Material and safety data

**INHALATION:** Wear approved dust masks as breathing cement dust may cause nose, throat, lung irritation or choking.

**EYES:** Wear glasses or safety goggles to prevent contact with eyes. Eye contact with cement may cause serious and potentially irreversible injuries.

**SKIN CONTACT:** Wear impervious gloves, shoes and protective clothing to prevent skin contact. Prolonged skin contact with wet cement may cause serious burns. Repeated contact may cause contact dermatitis.

**INGESTION:** In case of accidental ingestion, do not induce vomiting. If the person is conscious, wash out mouth with water and give plenty of water to drink.

**HANDLING:** Cement when mixed with water on application produces heat which is called heat of hydration and can cause irritation when handled without gloves

### Application

Making concrete with Portland Cement (CEM II/B-L 32.5R) requires a standard ratio mix of 1:3:4 (cement:sand:stone) Ratios are a standard guide and contractors can apply variable methods in their mixing ratios.

# Lafarge Cement

## Product Difference

		Masonry Cement
Strength Class	32.5R	MC22.5X
CEM type	CEM II	
Cement composition	80% clinker + 17% additive + 3% gypsum	62.5 clinker + 34.5 additive+ 3% gypsum
<b>Applications</b>		
Mortar/ Plaster		Yes
Low strength concrete (foundations, footings, domestic floors)		Yes
High strength concrete (suspended slabs, industrial floors, reinforced pillars)	Yes	
Precast applications (bricks, blocks, lintels, pipes, walls, floors, columns, culverts)	Yes	
Mortar mix ratio (cement: sand) Concrete mix ratio (cement: sand: stone)	1:6	1:4
Concrete mix ratio (cement: sand: stone)	1:3:4	
<b>Benefits</b>		
Superior workability	Yes	
Higher early strength (faster work rate)	Yes	Yes
Better durability	Yes	
Lower heat of hydration		



## SUPA SET

### About SupaSet

Supaset is a rapid setting cement which offers quick turnaround on production resulting in higher productivity and better returns. SupaSet is a premium brand which offers high quality bricks, concrete and other applications for less.

SupaSet has undergone stringent testing in laboratories and with customers to ensure the consistency and reliability for blockmaking and concrete applications. The consistent quality and fast setting properties make it the ideal choice for concrete brick makers, builders, architects, engineers, contractors and DIY enthusiasts.

### Lafarge Cement in Zimbabwe

Lafarge Cement Zimbabwe, formerly Circle Cement, is a subsidiary of the Lafarge Group. The Lafarge Group is a world leader in cement and other building materials.

Lafarge Cement Zimbabwe, is known for its contribution to the construction industry over the years. The Kariba dam, the Kabora Bassa dam, major bridges in the country and almost all high rise buildings in Harare are connected to Lafarge Cement Zimbabwe as the main supplier of cement.



 A member of  
LafargeHolcim

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# SupaSet

Portland Limestone Cement

For blockmaking  
and concrete



 LAFARGE

 LAFARGE  
Building better cities™

 A member of  
LafargeHolcim



# SUPA SET



## Applications

SupaSet for blockmaking and concrete offers consistent strength, fast setting, workability and durability, making it perfect for:

- Blockmaking
- Precast operations
- Structural concrete applications
- Dam/reservoir construction

## Strength Performance

SupaSet for blockmaking and concrete offers the following characteristics:

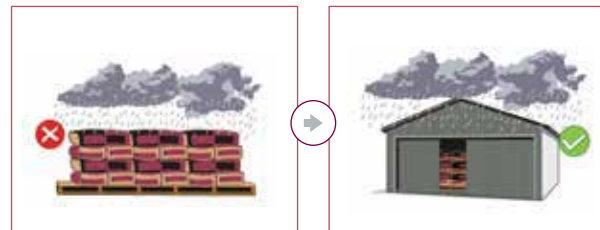
- High rate of early strength development improving the productivity of concrete product manufacturers.
- Fast drying rate allows for blocks to be moved quicker increasing the productivity of concrete brick makers with limited storage space.
- Improved workability: for easier placing, compaction and finishing
- Reduced water requirement resulting in less cracking and more strength, leaving fewer surface cracks and imperfections.
- Cohesion: the concrete stays uniformly mixed, instead of segregating before the concrete can set.

## Safety when handling Cement

At Lafarge, Safety is our No. 1 priority. When dealing with cement, the following safety measures should be adhered to at all times:

- Contact with cement (skin, eyes, mouth) and wear gloves
- Exposed to wet concrete should be washed as soon as possible
- Protective dust masks
- Medical attention should be sought in cases of excessive inhalation or eye contact

## Storing bags of cement



## Recommended Mix Proportions for SupaSet 42.5R

SupaSet for blockmaking and concrete is suitable for a wide range of applications from general purpose construction to major building projects. To get the best results from SupaSet, the following mix ratios should be followed for each type of application.

SUPASET Cement Is Suitable For:	Numbers Denote Volume Proportions		
	CEMENT	SAND / QUARRY DUST	STONE
<b>High Strength Concrete:</b> 35-40Mpa	1	2	2
<b>High Strength Concrete:</b> 25-30Mpa Suspended Slabs, Re- inforced Concrete, Heavy Duty Industrial Floors	1	2	3
<b>Medium Strength Concrete:</b> 20-25Mpa Driveways, Light Industrial Floors - Unreinforced	1	3	3
<b>Low Strength Concrete:</b> 10-15Mpa Foundations, Footings & Domestic Floors - Reinforced	1	3	4
<b>Brick &amp; Blockmaking Mix</b>	1	10	-

**NOTE:** Use the same size container for measuring all the materials in a batch - see volume proportions above.

50 kg + 50 kg =