



Lafarge Cement

Tried and Trusted Strength

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.

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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.

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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
Applications		
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	
Benefits		
Superior workability	Yes	
Higher early strength (faster work rate)	Yes	Yes
Better durability	Yes	
Lower heat of hydration		

