



CASTLE

GENERAL PURPOSE CEMENT



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CASTLE

GENERAL PURPOSE CEMENT (CEM II / B-L 32.5N)



CASTLE, general purpose cement is designed to achieve required strength with enhanced workability for general purpose mortar and concrete applications. This high performance cement which is ground to a significantly higher fineness, thus resulting in better water retention and cohesiveness in mortar and concrete. The better workability will enhance the execution of work, leading to less wastage and smoother finishing. All these properties make CASTLE the best choice for meeting the needs of contractors, architects, engineers and home owners.

CERTIFICATIONS

CASTLE is a bagged Portland Composite Cement, certified to MS EN 197-1 : 2014, Portland Limestone Cement, CEM II / B-L 32.5N. It is manufactured by grinding Portland cement clinker and specially selected high quality limestone.



APPLICATIONS

CASTLE is suitable for all general purpose applications. Suitable applications for various types of bag cement supplied by YTL Cement Marketing Sdn Bhd is as shown in the table.

SUITABLE APPLICATIONS FOR VARIOUS TYPES OF BAG CEMENT

Applications	Brickmaking	Bricklaying	Concreting	Plastering	Screeding	Tiling
CASTLE	•	••	••	••	••	••
DRAGON	•	••	••	••	••	••
ORANG KUAT	••	•	••	•	••	•
WALLCEM	○	○	○	••	○	○

• Good Performance •• Best Performance ○ Not Suitable



PROPERTIES

Tests	Units	Specification MS EN 197-1 : 2014 CEM II/B-L 32.5N	Test Results	
Chemical Composition				
Sulfate Content (SO ₃)	%	Not more than 3.5	2.1	
Chloride (Cl ⁻)	%	Not more than 0.10	0.01	
Physical Properties				
Fineness (According to Blaine)	m ² /kg	-	440	
Setting Time : Initial	mins	Not less than 75	155	
Soundness	mm	Not more than 10	0.8	
Compressive Strength (Mortar Prism) :	7 days	MPa	Not less than 16	24.0
	28 days	MPa	32.5 ≤ x ≤ 52.5	35.2



ENVIRONMENTAL BENEFITS

CASTLE is produced using the most advanced energy efficient cement production process. Every effort has been made to reduce the environmental foot print during the production of this product. The use of high quality limestone to replace a portion of the clinker also served to reduce the carbon foot print of the product.



Reduction in CO₂

RECOMMENDED MIX PROPORTIONS

Concreting (20 MPa)

• Batching by wheelbarrow

General Purpose Cement	Coarse Sand	Stone	Approximate Yield
2 Bags (1=50kg)	2½ Wheelbarrows	2½ Wheelbarrows	0.26m ³

Bricklaying

• Batching by wheelbarrow

General Purpose Cement	Building Sand	Approximate Yield
2 Bags (1=50kg)	4 Wheelbarrows	0.22m ³

Plastering

• Batching by wheelbarrow

General Purpose Cement	Fine Sand	Approximate Yield
2 Bags (1=50kg)	4½ Wheelbarrows	0.24m ³

AVAILABILITY

CASTLE is packed in 50kg paper bag and is available from leading building materials distribution companies and hardware dealers.

QUALITY ASSURANCE

CASTLE is produced under stringent quality assurance, environmental management, health & safety and energy management systems. It is certified to MS ISO 9001, MS ISO 14001, OHSAS 18001 & MS ISO 50001.

HEALTH AND SAFETY

Skin contact with wet cement, fresh concrete or mortar may cause irritation dermatitis or burns. It is recommended to use Personal Protective Equipments which include eye, hand, skin protection and dust masks. First aid treatment should involve the immediate bathing of the affected area with water.

