



DRAGON

GENERAL PURPOSE CEMENT



YTL Cement Marketing Sdn Bhd

6th Floor
Yeoh Tiong Lay Plaza
55 Jalan Bukit Bintang
55100 Kuala Lumpur
Malaysia

Tel • 603 2117 0088
Fax • 603 2144 3062

webmaster@ytlcement.com
www.ytlcement.com

Disclaimer clause

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DRAGON

GENERAL PURPOSE CEMENT

CEM II/B-S 42.5N, CEM II/B-V 42.5N, CEM II/B-M (S, V) 32.5N, CEM III/A 42.5N & CEM V/A (S,V) 32.5N



DRAGON, general purpose cement is formulated to achieve excellent workability, better water retention and longer open time required for general purpose mortar and concreting works. The superior workability will enhance the execution of works, resulting in less wastage and improved productivity. The use of DRAGON cement will also result in higher long term strength and superior durability of structures.

CERTIFICATIONS

DRAGON is certified to MS EN 197-1 : 2014, CEM II/B-S 42.5N / CEM II/B-V 42.5N / CEM II/B-M (S,V) 32.5N / CEM III/A 42.5N and CEM V/A (S,V) 32.5N. DRAGON is certified as a Eco - Label Environmentally Friendly cement by SIRIM and is also certified as a Green Label Eco-Friendly cement by the Singapore Environment Council. As such, it has significantly lower carbon foot print as compared to normal portland cement.



APPLICATIONS

DRAGON is suitable for all general concreting works, mortars, screeds & grouts, rendering, bricklaying, tiling and plastering works.

SUITABLE APPLICATIONS FOR VARIOUS TYPES OF BAG CEMENT

Applications	Brickmaking	Bricklaying	Concreting	Plastering	Screeding	Tiling
CASTLE	*	**	**	**	**	**
DRAGON	*	**	**	**	**	**
ORANG KLIAT	**	*	**	*	**	*
WALLCEM	o	o	o	**	o	o

* Good Performance ** Best Performance o Not Suitable



PROPERTIES

Tests	Units	Specification MS EN 197-1 : 2014 (32.5N)	Test Results
Chemical Composition			
Sulfate Content (SO ₃)	%	3.5 max	2.04
Chloride (Cl ⁻)	%	0.10 max	0.01
Physical Properties			
Setting Time (Initial)	mins	Not less than 75	185
Soundness	mm	Not more than 10	<1
Compressive Strength (Mortar Prism) (1:3:0.5)	: 7 days	MPa	Not less than 16
	: 28 days	MPa	32.5 ≤ x ≤ 52.5
			36.0

Certification Nos.
EL000002
&
EL000005



Certification Nos.
022-037
&
022-039

ENVIRONMENTAL BENEFITS

DRAGON is produced using the most advanced energy efficient cement production process. By replacing a portion of clinker with Ground Granulated Blastfurnace Slag (GGBS) and/or Fly Ash (FA), the use of DRAGON cement greatly reduce the environmental impact as compared to normal CEM I (Ordinary Portland Cement). DRAGON has significantly lower embodied CO₂ as a result of the clinker that forms the base cement being replaced by GGBS and/or FA.



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

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

QUALITY ASSURANCE

DRAGON 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.

