



# ORANG KUAT

HIGH STRENGTH CEMENT



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# ORANG KUAT

HIGH STRENGTH CEMENT (CEM I 42.5N / 52.5N)



ORANG KUAT, CEM I is a high strength portland cement which is specially formulated for early demoulding, handling and use. It is ideal for high strength concrete applications where time is of the essence.

## CERTIFICATIONS

ORANG KUAT is certified to MS EN 197-1, CEM I 42.5N / 52.5N



## APPLICATIONS

ORANG KUAT is suitable for structural concreting, precast, brickmaking and all general purpose applications etc where high strength is needed to improve productivity.

SUITABLE APPLICATIONS FOR VARIOUS TYPES OF BAG CEMENT						
Applications	Brickmaking	Bricklaying	Concreting	Plastering	Screeding	Tiling
CASTLE	*	**	**	**	**	**
DRAGON	-	**	**	**	**	**
<b>ORANG KUAT</b>	<b>**</b>	<b>*</b>	<b>**</b>	<b>*</b>	<b>**</b>	<b>*</b>
WALLCEM	o	o	o	**	o	o

\* Good Performance \*\* Best Performance o Not Suitable



## PROPERTIES

Tests	Units	Specification MS EN 197-1 : 2014 CEM I 42.5N	Test Results
<b>Chemical Composition</b>			
Insoluble Residue	%	≤ 5.0	0.4
Loss On Ignition (LOI)	%	≤ 5.0	3.2
Sulfate Content (SO <sub>3</sub> )	%	≤ 3.5	2.7
Chloride (Cl <sup>-</sup> )	%	≤ 0.10	0.02
<b>Physical Properties</b>			
Setting Time (Initial)	mins	≥ 60	130
Soundness	mm	≤ 10	1.0
Compressive Strength (Mortar Prism) : 2 days (1:3:0.5) : 28 days	MPa	≥ 10	29.7
	MPa	≥ 42.5; ≤ 62.5	48.9



## ENVIRONMENTAL BENEFITS

ORANG KUAT 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.



Reduction in CO<sub>2</sub>

## RECOMMENDED MIX PROPORTIONS

Concreting (30 MPa)

• Batching by wheelbarrow

ORANG KUAT	Coarse Sand	Stone	Approximate Yield
2 Bags (1=50kg)	2½ Wheelbarrows	2½ Wheelbarrows	0.26m <sup>3</sup>

Bricklaying

• Batching by wheelbarrow

ORANG KUAT	Building Sand	Approximate Yield
2 Bags (1=50kg)	4 Wheelbarrows	0.22m <sup>3</sup>

## AVAILABILITY

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

## QUALITY ASSURANCE

ORANG KUAT 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.

