



**KWIKBUILD
CEMENT**

Siyakha Nawe

KWIKBUILD CEMENT

42,5

Kwikbuild Cement 42,5N complies with the international standard SANS 50197-1:2013.



CHARACTERISTICS

Kwikbuild Cement 42,5N is a SABS approved high strength cement that can be used successfully in any application from large building and civil purposes to brick and block making and concrete product manufacturing. The long-term strength gain of **Kwikbuild Cement 42,5N** is particularly suited to all concrete applications from concrete product manufacturing to structural concrete applications. It has a low water demand which ensures a cohesive mix with long term durability.

COMPOSITION

Kwikbuild Cement 42,5N is a high strength blend of Ordinary Portland Cement (OPC), and SABS approved FlyAsh(FA). The unique blending process performed by Kwikbuild Cement results in a denser, more homogeneous blend with superior early strength requirements and improved impermeability characteristics.

COMPRESSIVE STRENGTH	STRENGTH CLASS	COMPRESSIVE STRENGTH MPA			
		EARLY STRENGTH		STANDARD STRENGTH	
		2 DAYS	7 DAYS	28 DAYS	
	32,5N	-	≥ 16,0	≥ 32,5	≤ 52,5
	32,5R	≥ 10,0	-		
	42,5N	≥ 10,0	-	≥ 42,5	≤ 62,5
	42,5R	≥ 20,0	-		
	52,5N	≥ 20,0	-	≥ 52,5	-
	52,5R	≥ 30,0	-		

APPLICATIONS

Kwikbuild Cement 42,5N is capable of producing cost-effective concrete, mortar and plaster for a variety of building applications such as:

HIGH STRENGTH CONCRETE Pillars, Slabs & Water Retaining Walls	MEDIUM STRENGTH CONCRETE Floors, Driveways & Mass Concrete	LOW STRENGTH CONCRETE Foundations & Paths
MASONRY WORK Mortar & Plaster	PRECAST APPLICATIONS	BRICK MAKING

MIXING RECOMMENDATIONS

2X 50KG OF CEMENT = 1X BUILDERS W/BARROW BY VOLUME

CONCRETE STRENGTH	CEMENT BAGS 42,5N	COARSE SAND	STONE	TYPICAL USES
LOW	50 Kg 50 Kg	4	4	Footings Foundations
MED	50 Kg 50 Kg	3	3	Driveways, Footpaths General Uses
HIGH	50 Kg 50 Kg	2	2	Heavy Duty Floors Water Tight Concrete General Application
	CEMENT BAGS 42,5N		BUILDING SAND	
MORTAR	50 Kg 50 Kg		8	
	CEMENT BAGS 42,5N		BUILDING SAND	
PLASTER	50 Kg 50 Kg		6	

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ENVIRONMENTAL & PERFORMANCE ATTRIBUTES

Kwikbuild Cement uses FA and GGBS as extenders, which decreases the amount of OPC needed and consequently the amount of Co₂ being emitted in the production of cement clinker. The manufacture of normal cement (CEM I of EN 197) results in the emission of 985 kg of Co₂/t of cement (British Cement Association, 2009).

GGBS manufacture typically releases 35kg of Co₂/t of GGBS : less than 4% of the carbon footprint of normal cement and the consumption of FA is equally Eco-friendly due to it being a waste product.

Cement blends containing FA and GGBFS have certain advantages over OPC used in concrete:

- Improve the impermeability and durability of the hardened concrete.
- Improve the properties of concrete in the fresh state (workability, compaction and better finish).
- Improve the strength of hardened concrete.
- Improve the resistance of the concrete to Sulphate attack (due to the lower content of alumina, compared with OPC, which causes the main reaction with Sulphate).
- Improve the resistance of the concrete to Chloride attack (due to the slower process of migration of the chloride ions compared with OPC).

Moffet Offloads

For customers who do not have forklifts, Kwikbuild Cement can supply transport with mounted moffets for convenient offloading.



SANAS ACCREDITED LABORATORY

At the foundation of the success of **Kwikbuild Cement** is the fact that we have always endeavoured to produce products of the highest quality and we are 100% committed to never compromise on the integrity of our brand. As part of this process, we have setup a SANAS accredited building materials testing laboratory at our Silverton production facility, which now gives us far greater control over the quality of our products and the ability to take far greater proactive steps to ensure all our products meet with industry standards.

Pure cements have various chemical properties that can be significantly enhanced when used with various extenders and the many additives available can do much to improve cement performance. Depending on the type of application, weather conditions and the quality of the other building materials used on site, not all cement's perform equally. With our own state of the art testing facility, we are able to continuously monitor the performance of our products in compliance with SANS 50197-1 :2013 and can assist our customers in testing their various sand types if required.

