

DuraBuild

GENERAL PURPOSE CEMENT • 32,5N



Technical data sheet

CONSISTENTLY DELIVERING

 **AFRIMAT®**



The versatile good value 32,5N cement

Formulated to help our customers complete jobs quicker and better in today's competitive market. DuraBuild offers:

- Superior workability for user-friendly plaster and general concrete work
- Consistent strength that more than meets the needs of most small businesses
- Good value and reliable quality of the Afrimat South Africa name

Applications

DuraBuild provides a quality, user-friendly, good value solution for a wide range of projects:

Applications	DuraBuild 32,5N
Small businesses	
Concrete block and brick making	✓
Unreinforced light industrial floors	✓
Driveways and parking slabs	✓
In and around the home	
Masonry work: mortar and plaster	✓
Foundations, concrete driveways and paths	✓
Concrete columns and slabs	✓



Benefits

Whoever you are:

- Small construction contractor
- Plasterer
- Concrete block and brick maker
- Homeowner and DIY enthusiast

You can benefit from the user-friendly, all-round performance of DuraBuild:

FRESHLY MIXED CONCRETE	HARDENED CONCRETE	MORTAR AND PLASTER
Superior workability for easier handling and finishing	More durable dense concrete	Easier mixing
Less bleeding for reduced cracking and better finish	Good impermeability for less leakage from water features and ponds	Workable 'buttery' mixes
Better productivity as DuraBuild concrete is easier to place with less effort	Good finishes for floor slabs, off-shutter work	Easier laying
	Higher long-term strength	Less bleeding giving better finishes
		Early age strength for quicker work

Production - Composition - Quality - Strength

- DuraBuild is manufactured as CEM II/B-L 32.5N at our Lichtenburg factory and as a CEM V/B (S-V) 32,5N at our Randfontein Grinding Station in Johannesburg
- The product is available in 50kg bags
- The product conforms to SANS 50197-1 (EN 197-1) specifications in accordance with SANS 50196 (EN 196) test requirements
- Complying with the regulated standard SANS 50197-1, DuraBuild achieves a compressive strength ≥ 16 MPa at 7 days and $\geq 32,5$ MPa, $\leq 52,5$ MPa at 28 days, as required for this class of general purpose cement

Guidelines for a mix

To make a batch of concrete, a standard builder's wheelbarrow that holds 65 litres of material is generally used to measure out the correct volumes of cement, stone and sand. DuraBuild is supplied in 50kg bags ("pockets") for use in a wide range of smaller jobs. 2 x 50 kg bags are equivalent in volume to one wheelbarrow.

Note: If you want to make a smaller batch of concrete, remember to use the same size container (for example a bucket) to measure all the ingredients. (Using a shovel to measure materials is not recommended because you cannot judge the quantities accurately.)

Recommended mix proportions by volume using DuraBuild 32,5N

(Numbers represent wheelbarrow loads)

	Cement	Sand	Stone
Block and brick making with crusher sand	1	7	-
Block and brick making optimised with crusher sand	1	8	-
Block and brick making with dump ash	1	5	-
Block and brick making optimised with dump ash	1	6	-
Mortar for bricklaying and plastering (5 MPa)	1	5	-
Low Strength Home Concrete: Foundations, Domestic Floors – unreinforced (10–15 MPa)	1	3,5	3,5
Medium Strength Driveways, light industrial floors – unreinforced (20–25 MPa)	1	2,5	2,5

Technical resources

DuraBuild is fully supported by the unique technical and laboratory resources of the Afrimat Integrated Solutions and Innovation Centre (ISIC). ISIC operates one of the largest and most respected SANAS accredited Civil Engineering testing facilities in South Africa. Complying with ISO/IEC 17025, the ISIC facility has a proud record of continuous accreditation since 1996.



Afrimat's Commitment to sustainability

While meeting the required standards **Afrimat aims with Durabuild to be the most environmentally friendly cement on the market.** Giving the environmentally conscious user a peace of mind that they have selected the environmentally responsible choice which will not affect their real-life technical requirements. An overall peace of mind.



Safety when handling cement

Before starting any job, make safety the first step in your planning. Cement is such a commonly available product that many people use it without giving any thought to personal protection. It is important to take sensible handling precautions:

- Avoid contact with cement (skin, eyes, mouth) and wear gloves
- Skin exposed to wet concrete should be washed as soon as possible
- Wear protective dust masks
- Seek medical attention in cases of excessive inhalation or eye contact

Storage and handling

- Stored cement must not be exposed to water or moisture (remember that bags left on the ground will draw moisture from the soil)
- Preferably store bags in a shed on plastic sheeting or pallets
- Only stack pallets two high – three is unstable and unsafe
- Close windows and doors to prevent damp air blowing over the bags
- Make tidy stacks with wide aisles to avoid damage by forklifts
- If stored outside, stack loose bags on pallets or timber slats under plastic sheeting
- Make a ridge with the sheeting so that rain runs off
- Cement deteriorates with time, therefore plan the layout of your stacks so that the bags that were the first-in can conveniently be the first-out (FIFO)
- Handle bags carefully to avoid tearing the plastic

Safety

Before starting any job, make safety the first step in your planning. Safety datasheets are available from:

- Integrated Solutions and Innovation Centre (ISIC) on 011 226 3600
- Website: www.afrimat.co.za

Ordering

Place orders for DuraBuild via:

- Cement Call Centre on 011 657 1122
- Your local Sales Representative

Contact us

For further information on DuraBuild

- Please speak to your local Sales Representative
- Cement Call Centre on 011 657 1122
- For technical queries, please contact ISIC on 011 226 3600

AFRIMAT HEAD OFFICE
Tyger Valley Office Park Building 2, Cr Old Oak Road & Willie Van Schoor Ave
Bellville, Cape Town, 7530, Tel: 021 917 8840, www.afrimat.co.za

CONSISTENTLY DELIVERING

