

FastCast

PORTLAND CEMENT • 52,5R
Premium high early strength cement



Technical data sheet

CONSISTENTLY DELIVERING

 **AFRIMAT®**



Composition

- Fastcast is manufactured at Lichtenburg from Portland cement with the addition of a strength enhancer to produce a Portland CEM I 52,5R cement
- The CEM I 52,5R product complies with SANS 50197-1 (EN 197-1)
- Fastcast is available in 50 kg bags

Strength performance

Fastcast meets the high early strength requirements of the precast concrete industry and similar demanding construction environments.



Quality

Manufactured exclusively at Lichtenburg to minimise product variability, Fastcast complies with the chemical and physical requirements of SANS 50197-1 (EN 197-1) for a Class 52,5R cement. The Fastcast bag also displays the following locally regulated quality symbols:

- LOA number
- SABS mark
- e-Mark

Physical properties

Property	Fastcast*	SANS 50197-1 (EN 197-1) requirement
2 day compressive strength	33 MPa	$\geq 30,0$ MPa
28 day compressive strength	60 MPa	$\geq 52,5$ MPa
Initial set	170 min	≥ 45 min
Soundness	1,0 mm	≤ 10 mm

Chemical properties

Property	Fastcast*	SANS 50197-1 (EN 197-1) requirement
SO ₃	2,86% m/m	$\leq 3,5\%$ m/m
Cl ⁻	0,071% m/m	$\leq 0,10\%$ m/m

*Typical test results



Special characteristics

Fastcast's most outstanding characteristic is its high rate of early strength development. This is a major benefit for the productivity of brick and block makers and precast concrete product manufacturers by allowing quicker turnaround time of moulds.

Applications

- Concrete work requiring high early strength such as precast applications in general, brick and block making, unreinforced light industrial floors
- Fastcast is ideal for domestic concrete projects such as foundations and garden paths, as well as medium strength concrete jobs such as driveways

Technical support

- Fastcast 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.





Storage & handling

- Stored cement must not be exposed to moisture
- 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 your stacks so that the first-in bags can conveniently be the first out (FIFO)
- When lifting bags of cement, keep a straight back and bend at the knees
- 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 Fastcast via:

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

Contact us

For further information on Fastcast

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

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