

RapidCem

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



Technical data sheet

CONSISTENTLY DELIVERING

AFRIMAT®

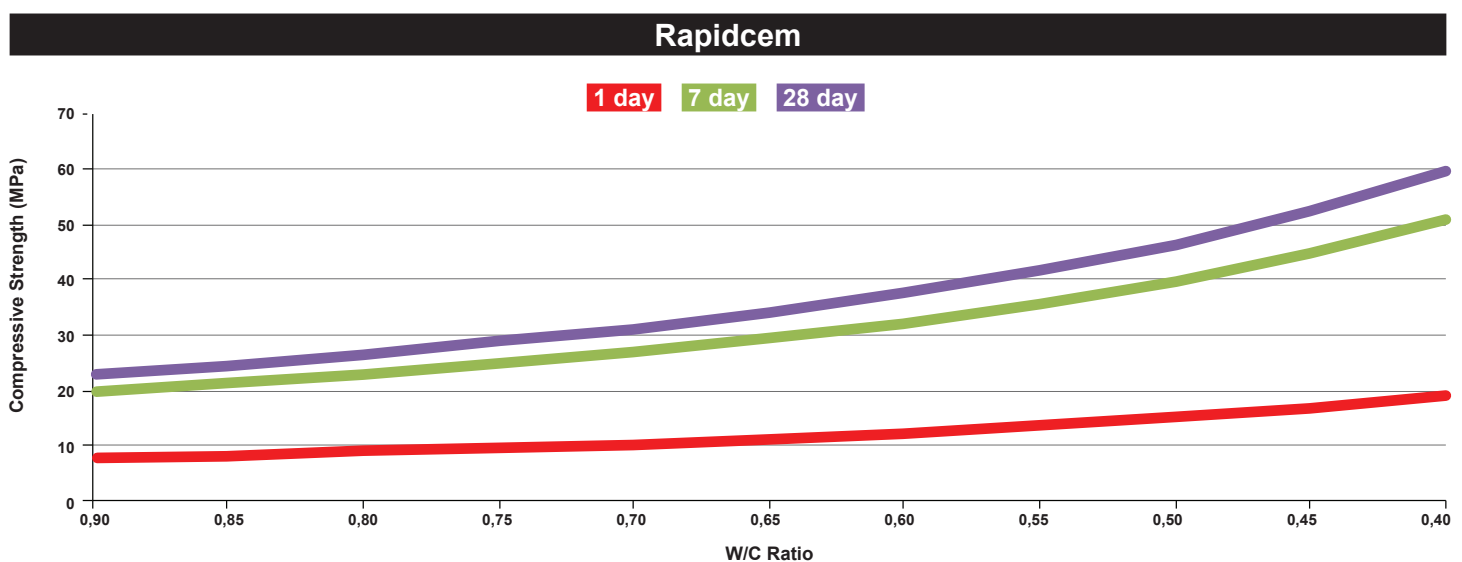


Composition

- Rapidcem is manufactured at Lichtenburg from Portland cement with the addition of a strength enhancer to produce a Portland CEM I 52,5R cement in accordance with SANS 50197-1 (EN 197-1)
- Rapidcem is available in bulk

Strength performance

Rapidcem is a superior performance cement that provides high early strength to meet the needs of the heavy precast industry and similar construction environments.



Disclaimer: These performance curves are provided in good faith and are intended as a helpful guideline for users of our cement products. The data was generated under ideal controlled conditions using standard laboratory materials and a general PCE plasticizer. Testing under different conditions outside our control may not reproduce exactly the same results.

Quality

Manufactured exclusively at Lichtenburg to minimise product variability, Rapidcem complies with the chemical and physical requirements of SANS 50197-1 (EN 197-1) for a CEM I 52,5R cement.

Physical properties

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

Chemical properties

Property	Rapidcem*	SANS 50197-1 (EN 197-1) requirement
So ₃	2,86% m/m	≤ 3,5% m/m
Cl ⁻	0,071% m/m	≤ 0,10% m/m
Na ₂ O Equivalent	0,37 % m/m	–
Na ₂ O Equivalent Clinker used	0,37% m/m	–

*Typical test results

Special characteristics

Rapidcem's most outstanding characteristic is its high early strength development, which is a major benefit for heavy precast concrete product manufacturing and applications such as concrete road repairs and production of railway sleepers. The product responds well to steam curing.

Applications

Typical applications are culverts and precast products in general: concrete roof tiles, prestressed railway sleepers and floor slabs.

Technical support

- Rapidcem 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.





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 Radipcem via:

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

Contact us

For further information on Rapidcem

- 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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