



SUPERCEM 42, 5R

Technical data sheet

QUALITY:

SUPERCEM 42, 5R complies with the chemical and physical requirements of EN 197-1 for class II 42, 5R cement.

Abbreviation	Naming	Clinker (%)	Limestone (%)	Gypsum (Calcium Sulphate) (%)
CEM II/ A-L 42, 5R	Portland Limestone Cement	80-94	6-20	3-5

Technical parameter CEM II/ A-L 42, 5R

Physical properties:

Property	SUPERCEM 42, 5R	EN 197-1
setting time (min)	> 150	> 60
soundness (mm)	< 10	<= 10

Chemical properties:

Property	SUPERCEM 42, 5R	EN 197-1
sulphate content (SO ₃)	< 4%	<= 4%
chloride content (Cl ⁻)	< 0, 10%	<= 0, 10%

Mechanical properties:

Property	SUPERCEM 42, 5R	EN 197-1
compressive strength 2 days	21, 0 MPa	>= 20, 0 MPa
compressive strength 28 days	>44 MPa	>= 42, 5 MPa

EARLY STRENGTH - THE IMPORTANCE OF "R":

The "R" classification indicates that SUPERCEM 42, 5R will achieve an early strength at 2 days >= 20, 0MPa in accordance with the EN 197-1 specification.

("N" designation refers to a class with ordinary early strength development).

ORDERS:

You can place your EUROCEM 42, 5R cement order via our Customer Service by contacting **84 560 99 03** or by e-mail: sales@cdb.co.mz

Special features of concrete made with this cement:

- High early strength development;
- High strength at all standard ages;
- Wide range of uses and high performance even in moderate aggressive environments;
- High workability;
- Particularly suitable for environmental class XC.

Recommended applications:

- **Reinforced concrete:**
 - all strength classes, especially those in the range of C20/ 25 to C40/ 50.
- **Precast concrete products:**
 - all type of plain concrete precast elements such as paving blocks, paving flags, kerb units, masonry blocks, etc.
- **Road pavements:**
 - soil stabilisation;
 - bound granular base layers;
 - concrete surface layers;
 - unreinforced concrete;
 - general propose grout;
 - sprayed concrete;
 - grout for piling in fresh and mild salted water.

AVAILABILITY AND DELIVERY:

- 2ton euro pallet (120x100x13H) cms, made of 40 bags of 50KG each, covered with plastic hood;
- Bulk, 30ton trucks self discharge.

PRECAUTION REGARDING THE USE:

- Avoid placing concrete under low temperatures;
- Provide adequate protection and cure according to correspondent standard;
- Follow the standard minimum cement content and maximum water/ cement ratio.

NOT RECOMMENDED:

- Under aggressive environment, strictly follow standard recommendations and technical information about the subject;
- Mass concrete.

ENVIRONMENT AND SAFETY:

- Before starting any job, make safety the first step in your planning;
- Use proper protective clothing, gloves and eye/ face protection equipments;
- The production of this cement represents a CO₂ emissions reduction;
- For further information consult our Safety Data Sheet.

IMPORTANT NOTICE:

The information contained in this technical data sheet is for general guidance only and should not be relied upon in specific instances. Cement performance results quoted are indicative as cement performance can be heavily influenced by a wide range of factors beyond our control.

Users should rely on professional advice according to their particular circumstances. To the extent permissible by law Cimentos da Beira will not be liable for any losses due to reliance on the information in this sheet or for losses due to the misuse of its products.

CONTACT US:

For further information on SUPERCEM 42, 5R please contact us: cel: 84 560 99 03
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With the publication of this technical data sheet earlier technical data sheet cease to be valid.