



Building Solutions

## PlasterLite data sheet



### Insulating, Perlite-based Plaster

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|--------------------------------|--|
| <b>Product Description</b>     | CemteQ PlasterLite comprises special blends of exfoliated Perlite and cement with admixtures for high quality wall plaster.  |
| <b>Composition</b>             | CemteQ PlasterLite consists of a blend of 42,5R cement, Slag (GGBFS) or PFA, construction-grade Perlite, admixtures and polyethylene micro fibers.   |
| <b>Benefits</b>                | <p>CemteQ PlasterLite is an insulating, lightweight, perlite-based plaster composite. It is a super-smooth, easy-to-apply, one-step material for trowel-on or low-velocity pumped plaster applications and offers the following benefits:</p> <ul style="list-style-type: none"><li>Thermal insulation</li><li>Lightweight</li><li>Fire-protection</li><li>Acoustic insulation</li></ul> |
| <b>Mass Per Bag</b>            | 17kg   |
| <b>Volume Per Bag</b>          | 40l  |
| <b>Coverage Per Bag</b>        | Under ideal conditions, 1 bag will cover approximately 1,5-1,75m <sup>2</sup> at 15mm thick.   |
| <b>Bulk Density</b>            | <p>Loose = 425-450kg/m<sup>3</sup></p> <p>In-situ cured = 550-600kg/m<sup>3</sup></p>  |
| <b>Compressive strength</b>    | Typically, between 12.6MPa and 13.9MPa at 28 days  |
| <b>Conductivity (W/m-K)</b>    | 0.09605  |
| <b>Application temperature</b> | +8°C to +35°C.   |
| <b>Water requirement</b>       | 11 to 12 litres of potable water dependent on ambient temperatures   |
| <b>Product colour</b>          | Light Grey   |
| <b>Description of bag</b>      | White paper bag with valve spout   |
| <b>Shelf Life</b>              | 3 months from date of manufacture printed on the packaging when stored at below 35°C under shade in a dry environment.   |



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### Plastering Guidelines

#### Surface Preparation

Any loose debris should be brushed from the wall before plastering. Wet the wall or apply a suitable bonding agent or preferably a bonding slush to the substrate.

#### Mixing and Method

To activate the admixtures, the product **must** be mixed using a low-speed mixer at max 400rpm (preferably a pan mixer) or a hand-held, drill-mounted mixer for three minutes after the last material is added. It is specifically **not** recommended that the product is mixed manually using a spade. It can be applied using a trowel or a low-velocity concrete pump as follows:

- (1) Use the entire contents of the bag as some segregation of the material may have occurred during transit.
- (2) Add 8 litres of water to a mechanical mixer. Pour the contents of the bag into the mixer or bucket while mixing continuously. Add additional water carefully until the correct sticky plaster consistency is reached without overwatering. Mix for three minutes after the last material is added to ensure that all the admixtures have been activated.
- (3) Using only clean, drinkable water, add slowly, mixing continuously to a firm, pasty but workable mix. DO NOT OVERMIX. Perlite particles are fragile and overmixing will cause the Perlite to pulverize, resulting in performance loss.
- (4) Do not overwater as too much water will weaken the mix. For best results use within 15-30 minutes of mixing.
- (5) Apply PlasterLite to the wall in a similar way to traditional plaster.
- (6) Allow plaster to dry before applying a straight edge (cutting).
- (7) Use the "Thumb" check to see if plaster can be cut. Attempt to indent the plaster with your thumb. If the product is firm and does not move at all, the plaster is ready for cutting using a straight edge or spirit level.
- (8) Float the surface sponge float or wooden trowel to the desired texture followed by a steel trowel for a smooth surface finish.
- (9) To prevent brittle plaster or cracks, the plaster must be kept damp for between 3 and 7 days and must not be allowed to dry in direct sunlight or wind. Loss of moisture is best prevented by gently spraying with water and covering with plastic sheeting or hessian.

#### Paint

For both interior and exterior plaster, it is recommended that the plaster is left to dry for 14 days before applying a quality plaster primer followed by either water- or solvent-based topcoats.

#### Storage Instructions

Keep in a dry place. Protect bags from rain, water and moisture. Place on a raised wooden platform or on plastic sheeting to prevent rising damp. Use within 3 months of the date of manufacture printed on the bag.


### Health and Safety

Always wear suitable protective clothing, boots, gloves and safety glasses. If contact with skin or eyes occurs, wash with water immediately. If irritation continues, seek medical advice. Please refer to the Material Safety Data Sheet (MSDS) prior to the use of this product. E-mail [info@cemteq.com](mailto:info@cemteq.com) or call +27-11-473-0440 for a copy of the MSDS.

### Environment

CemteQ PlasterLite is inorganic, non-toxic and environment-friendly. Please dispose of excess material responsibly and recycle the bags.

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### Disclaimer

For satisfactory results, these instructions need to be followed carefully. CemteQ has no control over how this product will be stored, handled or used and therefore will not be held responsible for its performance.