

Product Data Sheet

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Refractory concrete 2200

Product properties

The refractory concrete 2200 is suitable for processing of building parts which are used in combustion chambers.

Technical data

Density	ca. 2200 kg / m ³ (in untempered condition, according to compaction intensity)
Effective heat capacity	ca. 1 kJ / (kg*K)
Volume respective heat capacity	ca. 1.95 kJ / (dm ³ *K)
Cold compression strength	> 50 N/mm ²
Water demand	12 l / 100 kg dry mass
Application temperature	1200 °C (from 450 °C the strength decreases by increasing temperature)

Processing

Stir dry mass before putting processing quantities in a clean receptacle.

Prepare the necessary amount of water and dry mass and mix it intensively with a compulsory mixer or a power drill. Immediately after filling the form the mass must be compacted with a vibrator or a vibrating table. In case of using large forms, the forms must also be vibrated during the filling. The components can be struck after about 3 hours (depending on temperature).

The final strength is reached after 24 hours. The drying of the components can start after 24 hours.

The first heating-up has to be slow; otherwise the structure can be damaged (max. heating-up rate: 70 °C per hour).

Important notes

- The allowable temperature must not be exceeded
- Non-observance of the processing instructions may lead to damages or to a premature wear of the produced component
- Use little water; too much mixing water leads to shrinkage cracks and so to damages of the parts
- Aerate and compact (vibrating) the concrete sufficiently

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- Do not strike the poured concrete too early to avoid the building of cracks and damaging of the edges
- Let the struck parts dry totally before the first use
- Used strikes must be solid, and leak-proof, and should have non-absorbent and clear surfaces
- Product-specific information as to composition, handling, work protection, cleaning and disposal can be found in the safety data sheet.

Warranty

We guarantee flawless quality of our products. The guidelines regarding the handling are based on tests in our laboratory, and only serve as general guidelines without any formal warranty of properties, as we do not have any influence on field conditions and the execution of work.

Color variations and composition updates are subjects to change. Delivery to specialists of furnace construction only.

All the data is based on current state of our knowledge. The data is not, however, formal warranty of product properties and establishes no valid contractual relationship.

This document will cease to apply upon publication of a new version.

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