

TS EN 197-1

Portland Composite Cement
CEM II/A-M (P-LL) 42,5 R
► Main Constituents

$80\% \leq \text{Clinker} \leq 88\%$
 $6\% \leq \text{Pozzolana} + \text{Limestone} \leq 20\%$
 Setting time regulating calcium sulfate

► Chemical Requirements

$\text{SO}_3 \leq 4,0\%$
 $\text{Cl} \leq 0,10\%$

► Physical Requirements

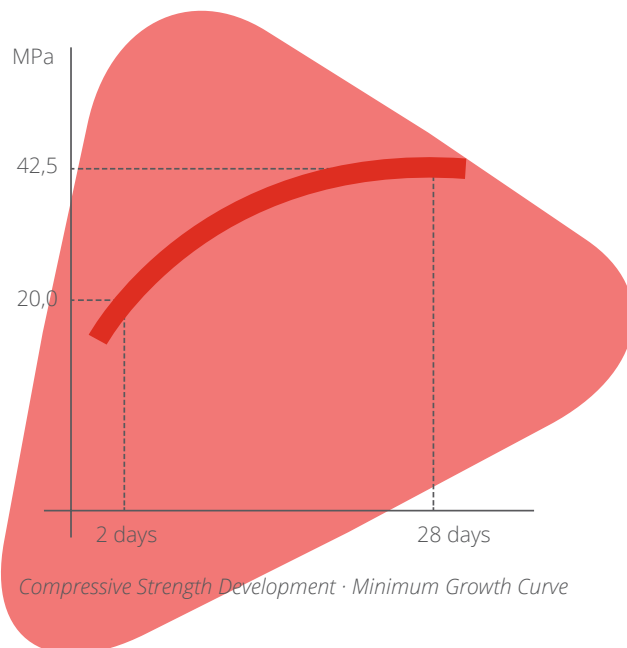
Initial setting (min.) ≥ 60
 Soundness (mm) ≤ 10

► Mechanical Requirements

Compressive Strength Development
 Minimum values
 2 days: 20,0 MPa
 28 days: 42,5 MPa

► Advantages

- High resistance to environmental impacts
- High ultimate strength
- Low carbon emission
- High workability on ready-mix concrete



► Recommended Applications

► Ready – Mix Concrete

Suitable for the production of all comprehensive strength classes. It gives high performance in ultimate strength.

► Environmental Impacts

Better performance than Portland Cement in concretes exposed to environmental impacts.

► Road Pavements

Suitable for concrete pavements for roads with heavy traffic.

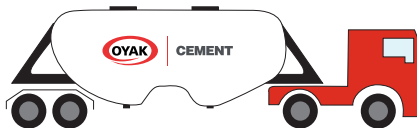
► General Use

For any and all kinds of grout mortar, plaster and repair works.

► Availability and Delivery



- Bagged (25 kg, 50 kg)
- Bulk



► Precautions in Application

► Follow the standard minimum cement content and maximum water/cement ratio.

► Provide adequate protection and cure according to correspondent standards.

► Keep framework and scaffolding in place until adequate mechanical strength is obtained.

► Ready-mix concrete: avoid long time transportation.

► Measures should be taken to prevent crack formation in concrete casting in hot and windy weather.

► Not Recommended for

► Delay in setting time and lower early strength may be obtained when used with a high amount of mineral additives (ground granulated blast furnace slag, fly ash, etc.)

► Environment, Safety and Storage

► Wear suitable protective clothing, gloves, eye and face protection equipment.

► For detailed safety information, request the "Safety Data Sheet" of the product.

► Stock the bulk cements in suitable silos so that they are not exposed to moisture and wind, and the bag cements are stacked in a maximum of 10 rows in the warehouses protected from moisture, wind and cold.



CEMENT

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