



# Lampocem



**Ready-to-use  
shrinkage-free rapid  
setting and hardening  
hydraulic binder**



## WHERE TO USE

Fast fixing of every kind into vertical and horizontal substrates in concrete and masonry.

### Some application examples

- Sinking and securing foundation bolts, pipeclips, sanitary-ware, hinges.
- Laying sub-frames in wood and metal.
- Installing boxes and sheathes for electrical systems.
- Sinking and securing wooden plugs.
- Sealing concrete conduits, drains, tanks, etc.
- Stopping small water leaks in underground structures, cellars and lift wells.

## TECHNICAL CHARACTERISTICS

**Lampocem** is a ready-to-use powder binder composed of high-strength cements and special admixtures in a formula developed in the MAPEI research laboratories.

**Lampocem** contains no chlorides.

Mixed with water, **Lampocem** produces a paste with a plastic-thixotropic consistency which is easy to apply even on vertical surfaces, without any need for formwork.

**Lampocem** has a very fast setting time (about 3 minutes at +20°C) and, after curing, has the following property:

- very high mechanical strength after only few hours;
- low shrinkage;
- no loss in performance over a long period of time.

## RECOMMENDATIONS

- Do not use **Lampocem** for restoring deteriorated concrete structures (use **Mapegrout Thixotropic** or **Mapegrout Fast-Set**).
- Do not use **Lampocem** to anchor machines or bearing structures (use **Mapefill**).
- Do not use **Lampocem** for levelling, smoothing or repairing floors, walls or steps (use **Nivorapid**).
- Do not apply **Lampocem** to dry or dirty surfaces.
- Do not mix **Lampocem** with more water than prescribed and do not add more water to the mix when it has begun to set.
- Do not add lime, cement or gypsum to **Lampocem**.
- Do not leave bags of **Lampocem** exposed to sunlight before use.

## APPLICATION PROCEDURE

### Preparing the substrate

The surface must be solid, strong and free from dust and degraded or loose material.

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Fixing foundation bolts for windows using Lampocem

Cavities formed for fixing must be roughened and thoroughly soaked with water.

This operation must be carried out very carefully, especially if the substrate is highly absorbent (mixed masonry, brickwork) and if it is exposed to hot sun.

### Preparing the mix

While stirring, pour 1 kg of **Lampocem** into a container holding 200-210 g of water (20-21% of water to 1 kg of **Lampocem**) and mix manually with trowel or float to obtain a smooth mix with no lumps.

**Lampocem** can be prepared in larger quantities, in which case an electric mixer is recommended.

Given **Lampocem**'s fast setting time, prepare only amounts which can be placed within 1-2 minutes.

For mixing by volume, 4 parts **Lampocem** should be mixed with 1 part water.

### Applying the mix

Apply the **Lampocem** mix rapidly with trowel or smooth float.

### Securing foundation bolts, hinges, tie-rods, etc.

Completely fill the appropriately prepared cavity with **Lampocem** and then insert the hinge, foundation bolt or tie-rod.

Finish off surface with trowel.

### Securing sub-frames and window and door frames

Position frame and seal off anchor bolts with **Lampocem**.

Finish off surface with trowel.

Keep frame firmly in position for a few hours.

### Stopping small water leaks

After preparing the mix, wait a few minutes before applying it so that the material warms up and begins to cure.

At this point, with gloved hands, force the **Lampocem** into the cavity and keep it pressed down until it has set.

### PRECAUTIONS TO BE TAKEN DURING THE PREPARATION AND APPLICATION OF LAMPOCEM

- No special precautions need to be taken when the temperature is approx. +20°C. In warm weather **Lampocem** should not be exposed to sunlight and very cold water should be used in preparing the mix.
- In cold weather water should be approx. +20°C and the material should be stored in heated rooms since the beginning of setting and curing is delayed in cool weather.

- To fill large cavities on vertical surfaces, apply several layers at approx. five minute intervals.

- On very warm or windy days, after applying **Lampocem**, keep surface damp for the first hour of curing to obtain perfect setting.

### CONSUMPTION

1.8 kg/dm<sup>3</sup> of cavities to be filled.

### Cleaning

Before it hardens, **Lampocem** can be cleaned from tools with water.

After setting, residues can be removed by mechanical means.

### PACKAGING

25-kg paper bags.

Cartons containing four 5-kg bags in Alupack. Packages made up of nine boxes in Alupack of 1 kg each.

### STORAGE

12 months if stored in a dry sheltered place in original packaging.

The product complies with the conditions of Annex XVII to Regulation (EC) N° 1907/2006 (REACH), item 47.

### SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Lampocem** contains cement that when in contact with sweat or other body fluids causes irritant alkaline reaction and allergic reactions to those predisposed. It can cause damage to eyes. It is recommended to use protective gloves and goggles and take the usual precautions for handling chemical products. In case of contact with eyes or skin wash immediately with plenty of water and seek medical attention.

For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

### WARNING

*Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.*

**Please refer to the current version of the Technical Data Sheet, available from our website [www.mapei.com](http://www.mapei.com)**

## TECHNICAL DATA (typical values)

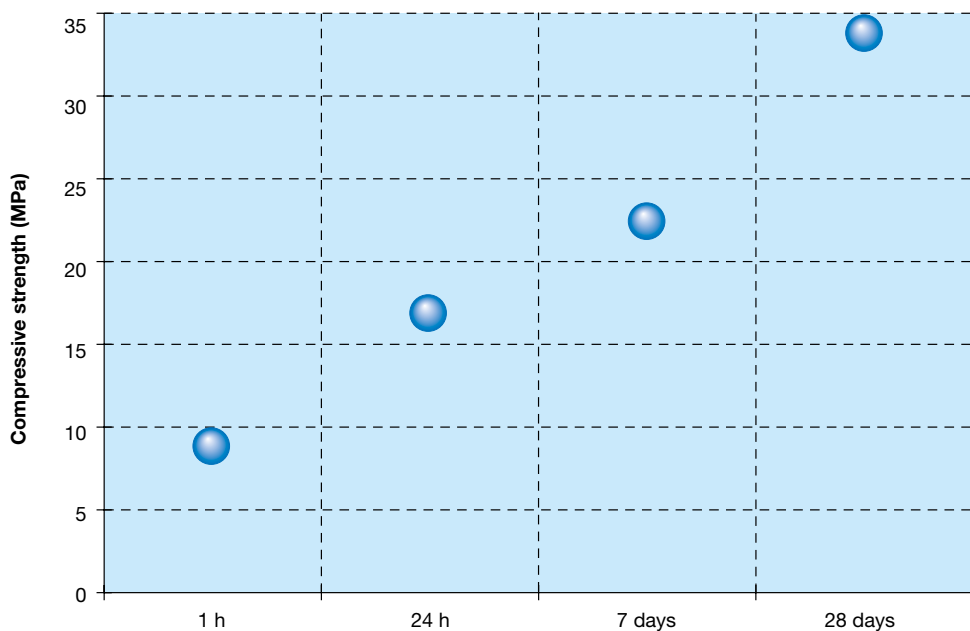
### PRODUCT IDENTITY

Consistency:	fine powder
Colour:	grey
Bulk density (kg/m <sup>3</sup> ):	1200
Dry solids content (%):	100

### APPLICATION DATA (at +23°C and 50% R.H.)

Colour of mix:	grey
Mix ratio by weight:	100 g of <b>Lampocem</b> to 20-21 g of water
Mix ratio by volume:	4 parts <b>Lampocem</b> to 1 part water
Consistency of mix:	plastic - thixotropic
Density of the mixture (kg/m <sup>3</sup> ):	2100
pH of mix:	11
Minimum application temperature:	+5°C
Pot life of mix:	approx. 1 minute
Finish setting time:	approx. 3 minutes
Ready for use after:	1-2 hours

### FINAL PERFORMANCES



*Fixing anchor bolts for radiators using Lampocem*



*Fixing brackets for pipes using Lampocem*



*Fixing enclosures and electric cable tubes using Lampocem*

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## LEGAL NOTICE

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All relevant references for the product are available upon request and from [www.mapei.com](http://www.mapei.com)

