



Lamposilex

Ultra-fast setting and curing hydraulic binder for stopping water leaks



WHERE TO USE

For instant stopping of water leaks, even water under pressure.

Some application examples

- Stopping water leaks in basements, subways and below grade structures in general.
- Stopping water leaks in tanks above ground.
- Waterproof sealing of rigid joints between walls and floor slabs.
- Waterproof sealing of cracks and holes.
- Reinstatement of layers of mortar in damp brickwork structures before waterproofing with **Idrosilex Pronto**.

TECHNICAL CHARACTERISTICS

Lamposilex is a ready-to-use powder binder composed of high-strength cements and special admixes in a formula developed in the MAPEI Research Laboratories.

Lamposilex contains no chlorides.

Mixed with water, **Lamposilex** produces a paste with a plastic-thixotropic consistency easy to apply even on vertical surfaces, with no need for formwork.

Lamposilex has a very fast setting time (about one and a half minutes at +20°C) and, after curing:

- has very high compressive and flexural strength after only half an hour;
- is waterproof and water-repellent.

RECOMMENDATIONS

- Do not add lime, cement or gypsum to **Lamposilex**.
- Do not leave drums of **Lamposilex** exposed to sunlight before using.

APPLICATION PROCEDURE

Preparing the substrate

Sealing water leaks

- Enlarge the cracks or dovetail holes so that the wider part is towards the outside. The minimum external sizes must be about 2 cm in width and 2 cm in depth.
- Remove any loose material from cavities.

Waterproof sealing of rigid joints

- Remove any degraded or loose material and clear all dust by means of compressed air.
- Thoroughly wet the substrate with water.

Before sealing, wait until any excess water has evaporated.

Compressed air or a sponge can be used, if necessary, to facilitate the removal of unabsorbed water. The ideal condition would be a cavity saturated with water but with a dry surface.

Preparing the mix

While stirring, pour 1 kg of **Lamposilex** into a container holding 280 g of water and mix manually with trowel to obtain a smooth mix with no lumps.

For dosing by volume, mix 2.5 parts **Lamposilex** with 1 part water.

TECHNICAL DATA (typical values)	
PRODUCT IDENTIFICATION	
Consistency:	fine powder
Colour:	grey
Bulk density (kg/m³):	1100
Dry solids content (%):	100
Shelf life:	6 months in unopened original packaging in a dry place
Hazard classification according to EC 99/45:	irritant. Before using refer to the "Safety Instructions for the preparation and application" paragraph and the information on the packing and Safety Data Sheet
Customs class:	2523 90 90
APPLICATION DATA at +23°C - 50% R.H.	
Colour of mix:	grey
Mix ratio by weight:	100 g Lamposilex to 28 g water
Mix ratio by volume:	2.5 parts by Lamposilex to 1 part water
Consistency of mix:	plastic
pH of mix:	12.8
Minimum application temperature:	+5°C
Pot life at +20°C:	approx. 1 minute
FINAL PERFORMANCES	
Mechanical characteristics:	Compressive strength and flexural strength tests were carried out on prisms measuring 4x4x16 cm cured according to the specifications laid down in the Italian Ministerial Decree of June 3, 1968. Lamposilex was prepared using 28% of water.
Flexural strength (N/mm²):	
– after 1/2 hour:	3
– after 1 hour:	4
– after 3 hours:	4
– after 24 hours:	5
– after 7 days:	8
– after 28 days:	9
Compressive strength (N/mm²):	
– after 1/2 hour:	17
– after 1 hour:	20
– after 3 hours:	24
– after 24 hours:	32
– after 7 days:	44
– after 28 days:	46

Given **Lamposilex**'s fast setting time prepare only enough of the product for use within one minute.

Applying the mix

• Stopping water leaks

Mold **Lamposilex** manually into the shape of a cork, wait a few seconds until mix begins to cure, then force product into crack or hole. Keep under pressure for 2-3 minutes until set.

After this, remove any excess material with a sandpaper disk or abrasive wheel.

With multiple leakages, begin applying **Lamposilex** from the top.

• Waterproof sealing of rigid joints

Work **Lamposilex** mix into cavity with trowel or float immediately after preparation. Keep surface damp for the first 15-20 minutes.

Precautions to be taken during preparation and application of Lamposilex

- No special precautions need be taken when the temperature is approx. +20°C. In warm weather do not expose material to sunlight and use very cold water for preparing the mix.
- In low temperatures, the water should be around +20°C and the material should be stored in heated rooms because the beginning of setting and curing is delayed at low temperatures.

CONSUMPTION

1.8 kg of **Lamposilex** will fill a one-dm³ cavity.

Cleaning

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

After setting, residues can be removed by mechanical means.

PACKAGING

5-kg drums.

STORAGE

Store the product in a dry place indoors.

Manufactured in compliance with the regulations of the 2003/53/EC Directive.

SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

Lamposilex contains cement that when in contact with sweat or other body fluids produces an irritant alkaline reaction and allergic reactions to those predisposed. Wear protective goggles and gloves. Safety Data Sheet available for professionals.

FOR PROFESSIONALS.

WARNING

While the indications and guidelines contained in this data sheet correspond to the company's knowledge and wide experience, they must be considered, under all circumstances, merely as an indication and subject to confirmation only after long-term, practical applications. Therefore, anybody who undertakes to use this product, must ensure beforehand that it is suitable for the intended application and, in all cases, the user is to be held responsible for any consequences deriving from its use.

**All relevant references
of the product are available
upon request**

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