

204/7.98

# LAMPOSILEX<sup>®</sup>

## ULTRA-FAST SETTING AND CURING HYDRAULIC BINDER FOR STOPPING WATER LEAKS

### WHERE TO USE

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

### Typical applications

- 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.

### DIRECTIONS FOR USE

#### Preparing the substrate

#### Sealing water leaks

- Enlarge the cracks or dovetail holes so that the wider part is toward 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.
- 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-litre 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.



## WARNING

*N.B. Although the technical details and recommendations contained in this report 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 applications; 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 use of the product.*

**N.B. FOR PROFESSIONAL USE ONLY**

## TECHNICAL DATA

TECHNICAL DATA	
<b>PRODUCT IDENTIFICATION</b>	
Consistency:	fine powder
Colour:	grey
Specific gravity:	1.1 kg/l
Dry solids content:	100%
Shelf life:	6 months in unopened original packaging in a dry place
Health hazard according to EEC 88/379:	no. The cement content of the product may however cause irritation to the eyes and skin. For further information consult the safety data sheet.
Customs class:	2523/9090/0
<b>APPLICATION DATA</b>	
Colour of mix:	grey
Mix ratio by weight:	100 g LAMPOSILEX to 28 g water
Mix ration 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
<b>FINAL PERFORMANCES</b>	
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:	
– after 1/2 hour:	3 N/mm <sup>2</sup>
– after 1 hour:	4 N/mm <sup>2</sup>
– after 3 hours:	4 N/mm <sup>2</sup>
– after 24 hours:	5 N/mm <sup>2</sup>
– after 7 days:	8 N/mm <sup>2</sup>
– after 28 days:	9 N/mm <sup>2</sup>
Compressive strength:	
– after 1/2 hour:	17 N/mm <sup>2</sup>
– after 1 hour:	20 N/mm <sup>2</sup>
– after 3 hours:	24 N/mm <sup>2</sup>
– after 24 hours:	32 N/mm <sup>2</sup>
– after 7 days:	44 N/mm <sup>2</sup>
– after 28 days:	46 N/mm <sup>2</sup>

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