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.

TECHNICAL CHARACTERISTICS

Lamposilex is a pre-blended powder binder composed of high-strength cements and special admixtures in a formula developped 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 inside. The minimum external sizes must be about 2 cm in width and 2 cm in depth.
· Remove any inchoerent 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-dm^3 cavity.

Cleaning

Before it hardens, **Lamposilex** can be cleaned from tools with water.
After setting, residues can be removed by mechanical means.

PACKAGING

1 box with 4 bags of 5 kg.

STORAGE

Store the product in a dry place indoor for 12 months.
The product complies with the conditions of Annex XVII to Regulation (EC) N° 1907/2006 (REACH) - All. XVII, item 47.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website .
PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	fine powder
Colour:	grey
Bulk density (kg/m^3):	1100
Dry solids content (%):	100
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 according to EN 196/1:	**Lamposilex** was prepared using 28% of water
Flexural strength (N/mm²): **– after 1/2 hour:** **– after 1 hour:** **– after 3 hours:** **– after 24 hours:** **– after 7 days:** **– after 28 days:**	3 4 4 5 8 9
Compressive strength (N/mm²): **– after 1/2 hour:** **– after 1 hour:** **– after 3 hours:** **– after 24 hours:** **– after 7 days:** **– after 28 days:**	17 20 24 32 44 46

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

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