LAMPOSILEX ME

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 ME is a pre-blended powder binder composed of high-strength cements and special admixtures in a formula developed in the MAPEI Research Laboratories.
Lamposilex ME contains no chlorides.
Mixed with water, **Lamposilex ME** produces a paste with a plastic-thixotropic consistency easy to apply even on vertical surfaces, with no need for formwork. **Lamposilex ME** 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 ME**.
· Do not leave drums of **Lamposilex ME** exposed to sunlight before using.

APPLICATION PROCEDURE

Preparation of 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 incoherent 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.

Preparation of the mix
While stirring, pour 1 kg of **Lamposilex ME** 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 ME** with 1 part water.
Given **Lamposilex ME**'s fast setting time prepare only enough of the product for use within one minute.

Application of the mix

• **Stopping water leaks**
Mold **Lamposilex ME** 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 ME** from the top.

• **Waterproof sealing of rigid joints**
Work **Lamposilex ME** 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

· 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 ME will fill a one-dm^3 cavity.

Cleaning

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

PACKAGING

Lamposilex ME is available in 5 kg drums.

STORAGE

Store the product in a dry place indoor for 12 months.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instruction on the safe use of our products can be found on the latest version of the Safety Data Sheet available on our website www.mapei.ae

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 ME** to 28 g water
Mix ratio by volume:	2.5 parts by **Lamposilex ME** to 1 part water
Consistency of mix:	Plastic
Minimum application temperature:	+5°C
Pot life at +20°C:	approx. 1 minute

FINAL PERFORMANCES	
Mechanical characteristics according to EN 196/1:	**Lamposilex ME** was prepared using 28% of water
Flexural strength (N/mm²): **– after 24 hours:** **– after 7 days:** **– after 28 days**	 4 7 8
Compressive strength (N/mm²): **– after 1/2 hour:** **– after 1 hour:** **– after 3 hours:** **– after 24 hours:** **– after 7 days:** **– after 28 days:**	 9 11 15 25 40 44

IMPORTANT NOTES

Whilst we try to ensure that any advice, recommendations or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that installers satisfy themselves that the product and conditions are suitable for the envisaged application. No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specification. The installer should ensure that our latest product data and safety information sheets have been consulted prior to use.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.ae

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into other project-related documents, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation. The most up-to-date TDS can be downloaded from our website www.mapei.ae

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All relevant references for the product are available upon request and from www.mapei.com

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