



Proofex LM*

Two-component bituminous liquid membrane for waterproofing of underground structures & intricate details in conjunction with Proofex waterproofing systems

Uses & advantages

- For the waterproofing of intricate details e.g. pipe entries, covings etc
- For external waterproofing of underground structures
- Can be used as an adhesive for Proofex drainage sheets and protection boards
- Can be applied to damp surfaces
- Resists hydrostatic head of up to 70 metres
- Seamless - flexible with crack-bridging capabilities
- Simple trowel application
- Solvent-free - environmentally friendly and harmless to ground water
- Resistant to aggressive ground water
- Compatible with Proofex waterproofing systems

Standards compliance

- Materialpr, fanstalt Nordrhein-Westfalen; tested in accordance with DIN 18195, parts 4 to 6.
- General test cert. no. P-22 1356 8 96-1, MPA Dortmund

Description

Proofex LM is a two component bituminous rubber emulsion with special hydraulically hardening fillers.

Proofex LM is supplied in pre-weighed packs of Liquid and Powder to be mixed in the ratio of 3 parts liquid to 1 part powder.

Properties

Fresh Density	: Approximately 1.2 g/cm ³ (mixture)
Pot life	: Approximately 90 minutes @ +20°C

Technical support

Fosroc offers a comprehensive technical support service to specifiers, end users and contractors.

It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Application instructions

Substrate preparation

All surfaces to be sealed must be clean and free from all loose particles & all other adhesion inhibiting substances. Mortar residues, laitance, etc., should be removed.

The substrate to be waterproofed may be dry or damp (not shining wet). There should be no standing water on horizontal areas. If the surface is dry, it is recommended that the substrate is dampened by spraying water beforehand.

All substrates to be waterproofed with Proofex LM must be primed prior to applying the waterproofing layer. The primer is prepared by diluting one part Proofex LM (premixed product) with ten parts of clean water and applied by brush.

Once priming is complete, the first coat of Proofex LM can be applied straight away.

Macro-porous substrates with cavities require a scratchcoat of Proofex LM to avoid bubble formation or risk of blistering.

The scratchcoat should be left to dry for 1 - 2 hours before applying the next layer.

It is recommended that, where required, each full first coat of Proofex LM is left to dry overnight before applying a second coat.

Mixing

Proofex LM kits consist of exact quantities of two components contained within the same pack. The powder component is carefully mixed into the liquid component by means of a slow speed drill with paddle until it forms a homogeneous, paste-like compound of uniform colour.

Application by trowel

Proofex LM is applied by steel float in one or two even layers depending on the maximum loading. To avoid crack formation the applied material must not be worked on once the coating starts to dry.

In areas with extreme loadings (covings, edges and pipe penetrations) the material has to be applied twice. Fosroc recommend the use of a Proofex LM mesh allowing 10 mm overlaps between the first and the second coat.

Application temperatures

The pot life of Proofex LM is at least 90 minutes at +20°C and normal humidity. Higher temperatures shorten while lower temperatures lengthen the pot life.

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Protection of the waterproofing

The structure may only be backfilled after complete curing of the waterproofing layers has taken place.

Sharp objects should not come in contact with the membrane.

The completed installation may be protected as required with Proofex Protection Board. Proofex LM should not be exposed for prolonged periods.

The cured membrane should therefore be protected from the elements (including sunlight) if the product will be left exposed for several weeks.

Adequate noise, heat and mechanical insulation materials such as styrene and mineral foam may be glued to Proofex LM.

Normal application

Proofex LM primer: Dilute Proofex LM with water in a mixing ratio of 1:10.

Damp conditions with no water pressure present waterproofing (1 layer)

Layer thickness (wet)	: Approximately 3.3 mm
Coverage	: Approximately 4 kg/m ²
Positive water pressure	Up to 1 bar : (10 m head of water) waterproofing (1 or 2 layers)
Layer thickness(wet)	: Approximately 4.0 mm
Coverage	Approximately 5 kg/m ² : incorporate reinforcement mesh at all sharp corners

Up to 7 bar (70 m head of water) waterproofing (2 layers)

Layer thickness (wet)	: Approximately 6.7 mm
Coverage	Approximately 8 kg/m ² : with or without incorporating reinforcement mesh

Estimating

Supply

Proofex LM : 28 kg packs

Theoretical coverage

Proofex LM : Approx. 4 - 6 kg/m² @ normal loadings
: Approx. 8 kg/m² where standing water
and pressurized water occur

Proofex Primer : Approx. 50 - 80 g/m²
: unthinned material⁽¹⁾

Note (1): depending upon the porosity of the substrate

Storage

Proofex LM has a shelf life of 12 months if kept in a dry store between 5°C and 30°C in the original, unopened packs.



* Denotes the trademark of Fosroc International Ltd.



Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service.

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