

TECHNICAL DATA SHEET

KEMASOL

Emulsion for setting capillary moisture barriers



PRODUCT DESCRIPTION

Silicone emulsion for capillary moisture barriers in brick, stone and mixed material walls, carried out by drilling and impregnating the wall along the entire cross-section.

KEMASOL develops its water-repellent properties by reaction with atmospheric carbon dioxide (CO₂). The active substance formed from the silicone masonry water repellent is polymethylsilica (CH₃SiO_{3/2}) which is insoluble in water, water repellent and resistant against aggressive natural environment. Free capillaries and pores in masonry are filled with formed silica gels and a barrier against rising damp is formed during at least 30 days of chemical reaction with CO₂ from the air.

Field of use

KEMASOL is satisfactory for use to provide a barrier against rising damp in existing solid walls of brickwork, blockwork or stone (excluding flint), or existing walls of conventional cavity construction, where there is no damp proof course or where the existing damp proof course has failed.

Product properties

- Water-based
- Freehand soaking of walls, minimum 1 day
- The holes must be left open for 30 - 60 days

PRODUCT DATA

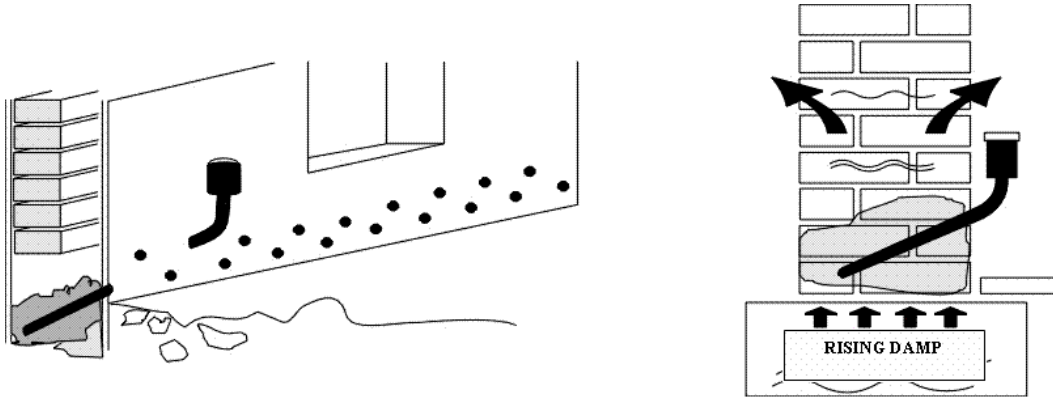
Basic information

Appearance	Colourless to softly yellow liquid
Packing	1 kg in plastic can / 8 kg (8x1 kg) in cardboard box / 576 kg (72x8 kg) on pallet 10 kg in plastic can / 600 kg (60x10 kg) on pallet 50 kg in barrel / 800 kg (16x50 kg) on pallet 1000 kg in container (rinfuza) ON ORDER
Storage and expiration date	12 months from the day of manufacture when stored properly in dry place and in the original, sealed and undamaged packaging. Manufacture date is stamped on the packaging.

Technical data

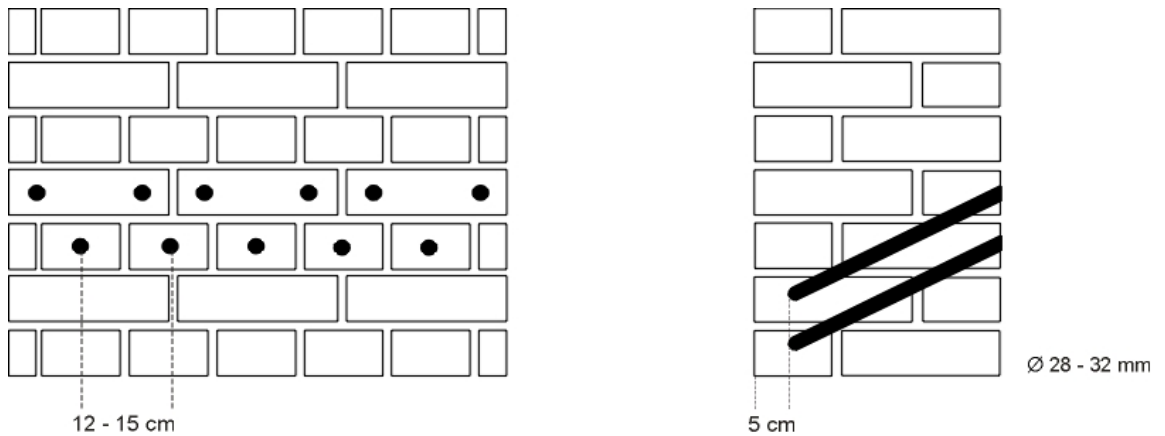
Type of product	silicon emulsion on base potassium methylsiliconate
Density	1-1,06 g/cm ³
Solubility in water	yes

Impregnation of wall with hydrofobic silicon emulsion KEMASOL



INSTRUCTIONS FOR USE

Drilling in a brickwork



Consumption

approximately 6 to 8 l/m for 40-cm wall thickness, or approximately 20 l/m² of wall cross-section

Consumption of KEMASOL depends on porosity, dampness and thickness of the wall.

Installation

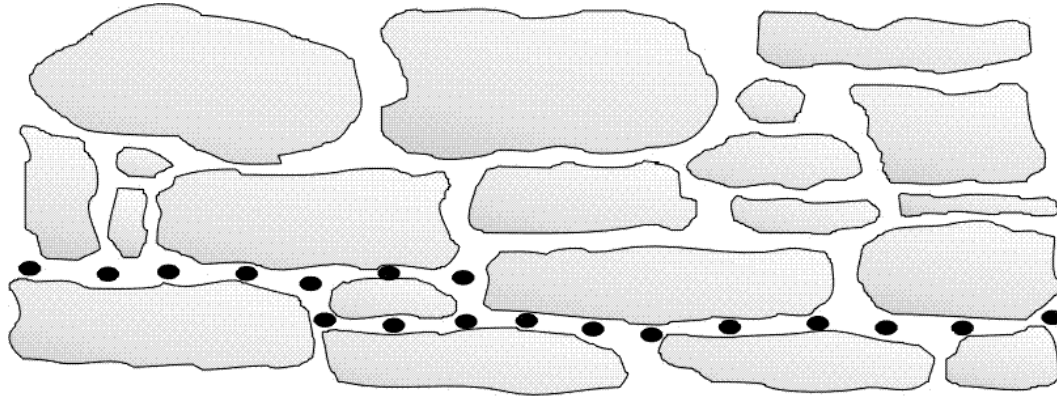
Internal plastering affected by hygroscopic salts is removed from the area to be treated minimal to a level of the rising damp.

In brickwork, 28-32 mm holes are drilled to predetermined depths along the selected course. Two holes are drilled in each stretcher and one in each header, to an average spacing of approximately 120 mm and a maximum spacing of 150 mm. Drilling should be carried out in an angle of 30°-40°. The drilling depth has to be regulated in a way, that the drilling ends 5-7 cm before outer surface. Walls thicker than 50 cm are injected from both sides.

Dust is blown out from boreholes. Bottles with tubes are inserted into the drilled holes and KEMASOL is poured in until complete saturation is achieved and the fluid stops running. KEMASOL is poured in to the boreholes at least one day. Boreholes are left open for 30-60 days to allow chemical reaction with CO₂ from the air. After that, boreholes are filled with HIDROSTOP PENETRAT or HIDROSTOP.

The treated walls are left for a period of a few months to allow initial drying out. By application of HYDROMENT drying mortar no additional waiting is required due to its watervapour permeability and water repellency.

Drilling in a wall made of stone



Cleaning of tool

Clean tools immediately after the use.

LIMITATIONS

Base temperature

+5°C min./ +30°C max.

Air temperature

+5°C min./ +30°C max.

Material temperature

+5°C min./ +30°C max.

Recommendation: Remains of unhardened/unset material had to be removed in accordance with the legislation.

Data source: All technical data in this technical sheet was obtained by laboratory research. Actual data may differ due to different working conditions.

Local restrictions: Due to specific local regulations the installed product can differ from country to country. For exact instructions for use a country specific technical sheet should be obtained.

SAFETY DATA

More data on storage, handling and use of mix are available in the safety sheet, which contains safety, toxicological and ecological data, and also pay attention to the warnings on the original packaging.

LEGAL BASE

Information and recommendations related to use of KEMA products are presented in good faith and believed to be correct. The later is based on our knowledge and experience with the products. Information is supplied upon the condition that products are stored and used according to the recommendations and the persons receiving the same will make their own determination as to its suitability for their purposes prior to use. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to Information or the product to which information refers. In no event will KEMA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information or the product to which Information refers. Nothing contained herein is to be construed as a recommendation to the use any product, process, equipment or formulation in conflict with any patent, and KEMA makes no representation or warranty, expressed or implied that the use thereof will not infringe any patent. All orders fall under current sales and supply conditions. The user should always check the latest technical sheet available upon demand.