

### HORIZONTAL INSULATION

# MICROSILEX RESTAURO

Product concentrate for horizontal injections



### MAIN ADVANTAGES

- Solventless silicone microemulsion concentrate
- Proven high efficiency even in case of walls with a high humidity level (up to 95%)
- Economical application — product in the form of concentrate
- Easy preparation for application by diluting with drinking water
- Long usable for the application of diluted microemulsion — 24 hours.

### AREAS OF APPLICATIONS

**MICROSILEX RESTAURO** after properly diluting with water it is used as a hydrophobisation agent for walls in order to protect them against capillary action and water absorption and also to dry damp walls. Introduction of silicone microemulsion into the wall can be carried out by using two methods: either gravitational or by pumping it under pressure to thoroughly saturate the treatment zone. Injection under pressure should be always used for walls with a high rising damp level.

### TECHNICAL SPECIFICATION

**TECHNICAL SPECIFICATION** (the data show indicated values and are not intended for the preparation of a specification):

**AVERAGE COVERAGE:** ca. 0.8–2.0 l of concentrate/m<sup>2</sup> of wall cross-section (depending on the substrate type and rising damp level). The value given is for reference only. The exact coverage should be specified for a particular substrate.

General typical properties	Value
APPEARANCE	Transparent
COLOUR	Yellowish to brown
SILANE/SILOXANE CONTENT	ca. 100%
DENSITY AT 25°C	0.96-1.00 g/cm <sup>3</sup>
FLASH-POINT	25°C

**STORAGE:** Up to 24 months from the date of production in tight and sealed packagings in dry rooms in the temperature from + 5°C to + 25°C. Do not allow for rising damp of the product during storage. Protect the product from acids and alcohols. The product should be stored only in original attested packagings. It is not recommended to store the substance in the form of a solution in water. Shelf life for each product batch is given on the label. Product storage after its shelf life does not mean that the product is useless. However, it is necessary to check a specific product behaviour in particular circumstances in order to provide its proper quality.

### APPLICATION METHOD

**SUBSTRATE PREPARATION:** In case of uniform (homogenous) walls in terms of materials, it is necessary to make openings spaced every 8–12 cm. The depth of holes drilled should be ca. 5 cm shorter than the wall thickness. Drilling points should be selected in such a way so that the opening goes through at least one wall horizontal joint. In each case before the introduction of the prepared substance into the opening, it should be dedusted with compressed air. In case of walls of porous structure or non-uniform ones, before the injection of **MICROSILEX RESTAURO** it is necessary to apply a vertical insulation by using **KOMBI HYDRO STOP** hydro-insulation base coat, to be reinforced with a fibre glass mesh with an area density of min. 145 g/m<sup>2</sup>. If the thickness of hydro-insulation exceeds 3 mm, it is necessary to apply **KOMBI HYDRO STOP** base coat in two layers.

**PRODUCT PREPARATION:** In the process of product dilution, it is recommended to pour **MICROSILEX RESTAURO** into water and then mix it for a short while. Solution of **MICROSILEX RESTAURO** with drinking water in the ratio from 1:7 to 1:14 (by volume or weight) is used for injection depending on the wall rising damp level and site conditions. **Note:** It is necessary to prepare such an amount of product to be used on the same working day.

**PRODUCT INTRODUCTION:** Previously prepared solution of **MICROSILEX RESTAURO** should be introduced into the wall through the drilled openings to be provided on the ground level (outdoors) or on the floor level (indoors). The distances between the drilled openings can be differentiated and depend on the construction material absorptivity. In case of high rising damp level of the wall, it is recommended to perform injection under pressure. During the injection, packers are introduced into the drilled openings through which microemulsion is pumped under pressure (0.5-5 bars are recommended). The inclination of openings in this option is lower. **Note:** It is absolutely necessary to familiarise with the product material safety data sheet before use. The condition for proper functioning of insulation is adequate saturation of wall within the injection zone. The condition is met by providing a sufficiently long injection time (in the case of pressure injection, min. 5-10 minutes).

**SAFETY GUIDELINES:** Exhaustive guidelines are available in the material safety data sheet.