

# SikaMur®-InjectoCream

Silane based injectable DPC for rising damp treatment

## Product Description

SikaMur®-InjectoCream is a new concept for the control of rising damp. SikaMur®-InjectoCream is a water repellent cream. It is inserted into a series of holes drilled into a mortar course of the masonry by means of a simple application gun - no special injection pump required. Once injected to the mortar course, SikaMur®-InjectoCream will diffuse within the damp wall to form a water repellent barrier (Damp-Proof Course, DPC) and block future rising damp.

## Uses

SikaMur®-InjectoCream can be used to treat rising damp in almost all types of masonry walls:

- Solid brick walls
- Cavity walls
- Random form stone and rubble infill walls, etc.

## Characteristics / Advantages

- Easy to install (low risk for operative error, not so dependent on operative skills).
- 1-component, ready to use.
- Fast to install (no 'double drilling', no waiting for liquid to penetrate under pressure or gravity).
- No need for preliminary watertight sealing around the injection holes (as with pressure systems).
- Fast to inject (no waiting times required to pump in the material compared to pressure injection systems and no refilling as with gravity fed injection systems).
- Consistent application rate (easy to calculate the amount of material that will be required).
- Does not require a special expensive pump.
- Spillage & mess virtually eliminated from the site (no problem with fluids flooding through party walls, cavities or service ducts).
- Concentrated formula with over 60% active ingredients (introduces a lower quantity of inactive carrier into the wall - much more effective results compared to less concentrated materials).
- Low hazard, water based - non-caustic, non-flammable - not injected under pressure.
- Very low wastage
- Small waste disposal
- No risk of increased efflorescence (as with silicate rising damp treatments).

## Tests

### Approval / Standards

BBA Approved Certificate No. 07/4419

Construction



## Product Data

### Form

Colour	White
Packaging	600 ml sausage Boxes of 10 sausages

### Storage

Storage Conditions / Shelf-Life	12 months from date of production if stored properly in original unopened, undamaged and sealed packaging in dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and moisture.
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### Technical Data

Chemical Base	Silane based emulsion
Density	~ 0.920 kg/l (at +20 °C)

### Mechanical / Physical Properties

#### Design

##### Drill hole:

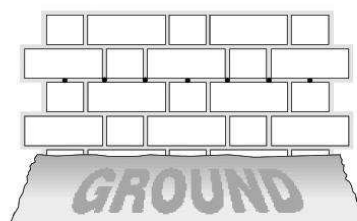
For treatment to be effective, the correct volume of SikaMur<sup>®</sup>-InjectoCream must be used. The system requires 12 mm diameter holes to be drilled at horizontal centres no greater than 120 mm apart. The depth of the holes required for various wall thicknesses is shown in the table below. For all other wall thickness, the depth of the holes shall be within 40 mm of the opposite side.

Drill horizontally, directly into the mortar course, preferably at the base ends of the bricks of the course selected (refer to the graphic below for double Flemish bond or stretching bond brickwork)

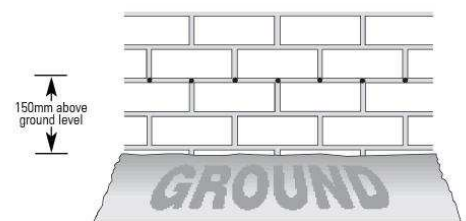
After the drilling operation, each individual hole needs to be thoroughly cleaned using a clean compressed dry air blower.

Depth of 12 mm diameter hole required for SikaMur<sup>®</sup>-InjectoCream in various thicknesses of wall:

Wall thickness	110 mm	220 mm	330 mm	440 mm
Depth of hole required	100 mm	190 mm	310 mm	420 mm
Hole centres	120 mm	120 mm	120 mm	120 mm



Drilling pattern for Double Flemish Bond



Drilling pattern for Stretching Bond

#### Type of Walls

##### Solid brick walls:

Solid brick walls can be treated from one single side in one operation. This will depend on the length of the drill bit locally available.

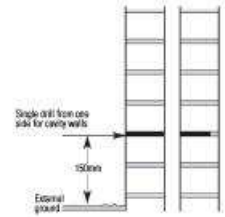
Drill the selected masonry mortar course at the prescribed centres to the appropriate depth in accordance with the table above.



### Cavity walls:

Cavity walls may be treated from one side in a single operation or each side wall may be treated separately.

When undertaking the treatment from one side, drill completely through the selected mortar course, allow the drill bit to pass across the cavity and then drill into the other wall of brickwork to be within 40mm of the opposite (rear) side. The viscosity of SikaMur®-InjectoCream is such that it is possible to treat each side wall from a single drilling operation. Always ensure that the cavity is clear before treatment.

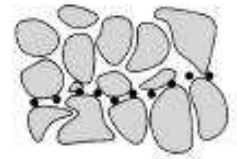


If each side wall is treated separately, treat each side wall as an individual solid brick wall.

### Random stone and rubble infill walls:

Follow the mortar course at the appropriate selected level. If a stone is of a porous type, e.g. sandstone, then the drilling can be made directly into the porous stone.

The variable thicknesses of stone walls and the possibility of rubble infill dropping and blocking the injection holes cause difficulties for any injection system. If these sorts of problems occur, either drill into 50% of the wall thickness, from both sides at a corresponding height or drill additional holes, adjacent to the obstructed holes to ensure that an adequate volume of SikaMur®-InjectoCream can be injected to form a continuous DPC.



## System Information

### Application Details

#### Consumption / Dosage

Number of sausages required:

Wall thickness      110 mm      220 mm      330 mm      440 mm

Length of wall

Length of wall	110 mm	220 mm	330 mm	440 mm
10 m	1.5	3.0	5.1	7.0
20 m	3.0	6.0	10.2	13.0
30 m	4.6	9.0	15.3	21.0
40 m	6.1	12.0	20.4	28.0

Note: different site conditions can obviously cause variations. Always allow at least an extra 10% when estimating the quantity of material required.

#### Preparation

Where required remove skirting boards and/or render/plaster to identify and expose the original masonry and the appropriate mortar course to be treated. Measure the thickness of each wall to be treated. Set the depth gauge of the drill or apply tape to the drill bit in order to identify the correct drilling depth.

### Application Conditions / Limitations

#### Ambient Temperature

Injection works shall be carried out when the temperature does not drop below 0°C for at least 48 hours after application to allow the material to diffuse optimally.

## Application Instructions

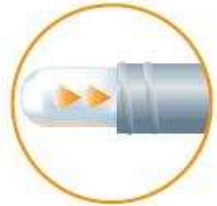
### Application Method / Tools



Press lever clasp release and pull pressure piston out to the maximum position



Unscrew and remove delivery tube end of the SikaMur<sup>®</sup>-InjectoCream gun



Insert SikaMur<sup>®</sup>-InjectoCream sausage into the barrel of the gun



Cut or puncture the visible end of the sausage



Replace the delivery tube end of the gun

#### *Injection:*

Insert the delivery tube of SikaMur<sup>®</sup>-InjectoCream application gun into the full depth of the pre-drilled hole. Squeeze the gun trigger and back fill each hole fully with SikaMur<sup>®</sup>-InjectoCream to within 1 cm of the surface. When treating cavity walls from one side fill the holes completely in each side wall. Dispose used sausages in a plastic bag and in accordance with local regulations



*Making good injection holes:*

All drilled holes shall either be plugged or filled and pointed over using appropriate Sika mortars

*Replastering:*

In common with all remedial damp proof course systems the adequate removal and correct replastering of internal salt contaminated plaster is an essential requirement. Use SikaMur® Dry mortar for this replastering work. Refer to the relevant data sheet

**Notes on Application / Limitations**

In all cases the new damp proof course shall be installed in accordance with the relevant code of practice, e.g. British Standard Code of Practice for "Installation of Chemical Damp Proof Courses" BS 6576 (2005)

SikaMur®-InjectoCream has not been designed for surface impregnation applications and shall not be used for this purpose.

Some white surface stains may occur around the injection site. If these occur, simply brush them off when dry.

**Value Base**

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

**Local Restrictions**

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

**Health and Safety Information**

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

**Legal Notes**

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



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