

PRODUCT DATA SHEET

SikaMur® InjectoCream-100

SILANE-BASED INJECTABLE DAMP PROOF COURSE (DPC) FOR RISING DAMP TREATMENT

PRODUCT DESCRIPTION

SikaMur® InjectoCream-100 is a new concept for the control of rising damp. SikaMur® InjectoCream-100 is a water repellent cream, packed in a 600 ml sausage or 300 ml cartridge. 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 into the mortar course, SikaMur® InjectoCream-100 will diffuse within the damp wall to form a Damp Proof Course (DPC), will allow the wall to dry and block future rising damp. SikaMur® InjectoCream-100 complies with the requirements of WTA Guideline 4-4-04/D "Injection of masonry in order to avoid capillary moisture content".

USES

SikaMur® InjectoCream-100 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 approx. 80 % 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).

APPROVALS / STANDARDS

- Tested as product for the treatment of rising damp in masonry by the Belgium Building Research Institute (Report ref. BE 407-695-057 dated 6th of July 2009)
- Tested according to WTA Guideline 4-4-04/D- Report No. M 1954/1 date 24th June 2014

PRODUCT INFORMATION

Chemical Base	Silane based emulsion
Packaging	600 ml sausage (Boxes of 10 sausages) 300 ml cartridge (Boxes of 12 cartridges)
Colour	White

Shelf Life	12 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.
Storage Conditions	Dry storage at temperatures from +5 °C up to +35 °C. Protect from direct sunlight and humidity.
Density	~0,90 kg/l (20 °C)

APPLICATION INFORMATION

Consumption	Number of sausages (in brackets: cartridges) required:				
	Length of wall	Wall thickness			
		110 mm	220 mm	330 mm	440 mm
	10 m	1,5 (3)	3,0 (6)	5,1 (10,2)	7,0 (14)
	20 m	3,0 (6)	6,0 (12)	10,2 (20,4)	13,0 (26)
	30 m	4,6 (9,2)	9,0 (18)	15,3 (30,6)	21,0 (42)
40 m	6,1 (12,2)	12,0 (24)	20,4 (40,4)	28,0 (46)	

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

Ambient Air Temperature	+5 °C min. / +35 °C max.
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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

NOTES ON DESIGN

Drill holes

For treatment to be effective, the correct volume of SikaMur® InjectoCream-100 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.

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® InjectoCream-100 in various thicknesses of wall:

Wall thickness	Hole depth	Horizontal spacing
110 mm	100 mm	120 mm
220 mm	190 mm	120 mm
330 mm	310 mm	120 mm
440 mm	420 mm	120 mm

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 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 40 mm of the opposite (rear) side. The viscosity of SikaMur® InjectoCream-100 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-100 can be injected to form a continuous Damp Proof Course.

SUBSTRATE 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 METHOD / TOOLS

Use of application gun

- Press lever clasp release and pull pressure piston out to the maximum position.
- Unscrew and remove delivery tube end of the SikaMur® InjectoCream-100 gun.
- Insert SikaMur® InjectoCream-100 sausage or cartridge into the barrel of the gun.
- Cut or puncture the visible end of the sausage or cartridge.
- Replace the delivery tube end of the gun.

Injection

Insert the delivery tube of SikaMur® InjectoCream-100 application gun into the full depth of the pre-drilled hole. Squeeze the gun trigger and back fill each hole fully with SikaMur® InjectoCream-100 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 of 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 and method statement.

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-100 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 Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) 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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